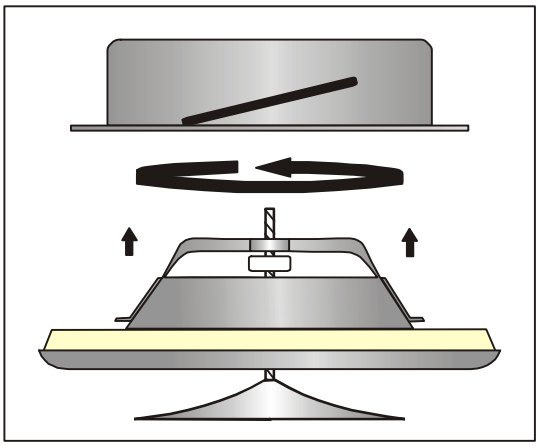
SUPPLY AIR VALVE DVS-P

TECHNICAL DATA

DVS-P is a supply air valve suitable for houses, offices etc.

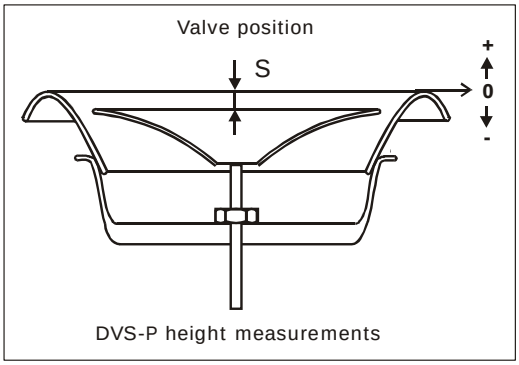
- Good adjusting features
- Low noise level
- Quick and easy to install
- Airflow easy to measure



CONSTRUCTION
The **DVS-P** is manufactured from steel sheet, powder coated. Standard color white (RAL 9010). Other color finishes are available to special order quantity. The valve body has a gasket, made of cellular plastic and the control disc, with screw spindle, enables easy positional locking.

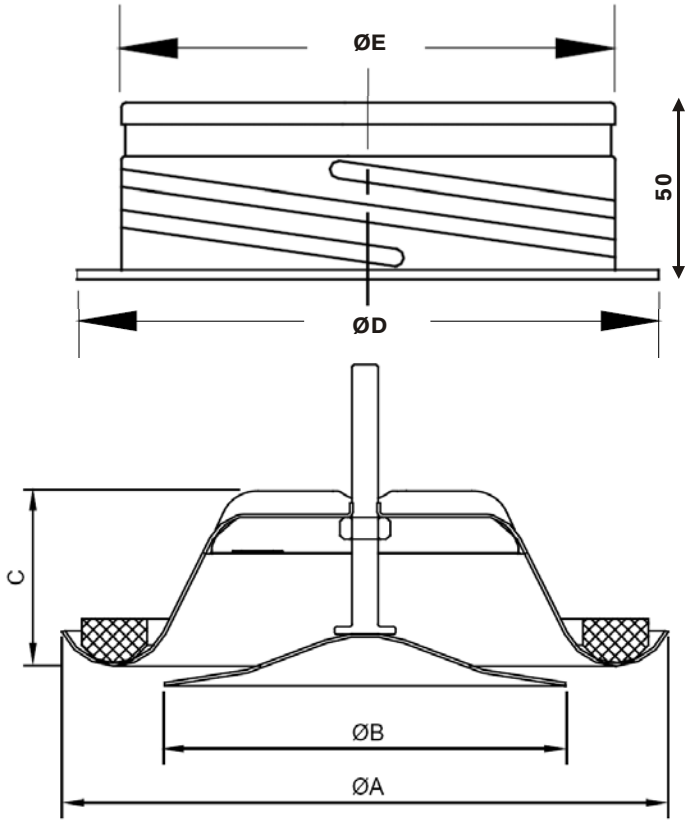
Fixing collar **DVS-F** is manufactured from galvanized steel sheet.

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.



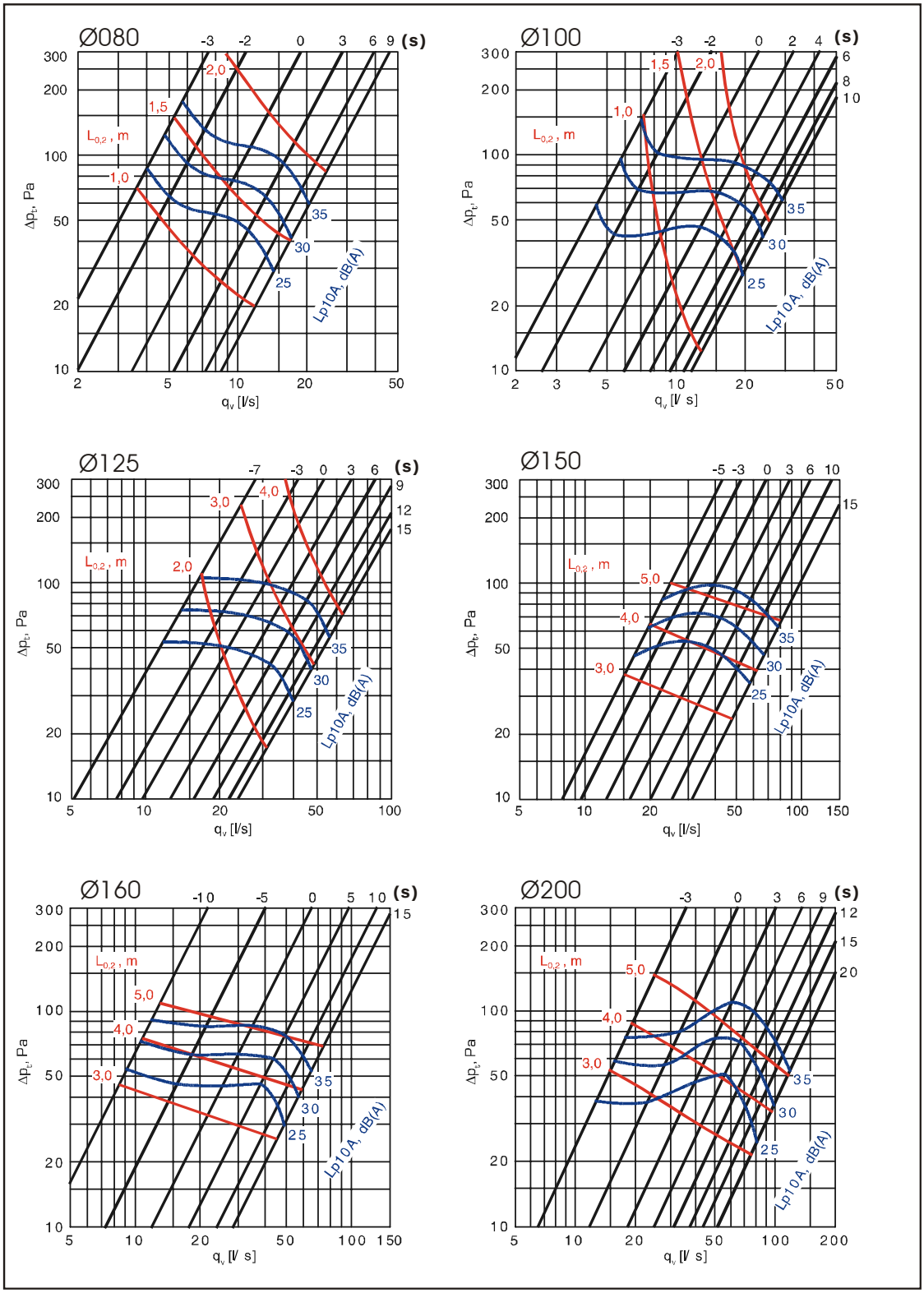
DVS-P height measurements

ORDER EXAMPLE:	**Powder coated valve *including* fixing collar DVS-F**
Product:	DVS-P
Size:	080
CODE:	**DVSP 080**



DIMENSIONS IN MILLIMETRES

DVS-P	Ø080	Ø100	Ø125	Ø150	Ø160	Ø200
A	116	140	170	202	202	254
B	76	92	111	135	135	194
C	40	40	46	54	54	64
Weight	150 gr	170 gr	230 gr	340 gr	340 gr	550 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



SOUND POWER LEVEL L_W

DVS-P	CORRECTION K_{oct} (dB)						
	Middle frequency by octave band (Hz)						
	125	250	500	1000	2000	4000	8000
080	2	2	1	0	-3	-9	-17
100	7	3	2	-2	-6	-14	-30
125	3	6	4	-3	-11	-21	-37
150	7	5	3	-2	-10	-20	-34
160	6	7	3	-3	-11	-27	-34
200	7	6	3	-2	-10	-25	-34
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-P unit.

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^2sab)	[dB(A)]
L_{Woct}	sound power level by octave bands	(dB)
ΔL	sound attenuation	(dB)
K_{oct}	correction	(dB)

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

