



Steel exhaust valves type DVS

Steel air exhaust valves with adjustable core and 50 mm mounting frame

Application

- Wall or ceiling mounted valves **DVS** for air exhaust inside buildings.

Material

- Steel

Colour

- White, RAL 9010

Composition

- Pressed steel grill with adjustable core, supplied with galvanized steel mounting frame

Mounting

- Fixing in the mounting frame

Accessories

- Mounting ring **TR** for clamping the mounting frame on tile ceiling plates

Order example

- **DVS, 100**

Explanation

DVS = Type valve (incl. mounting frame and clamping ring)

100 = Connection diameter

Text for tender

- The air exhaust valves shall be of the high pressure loss type with adjustable core and made of steel. They shall be supplied with mounting frame
- White finish RAL 9010
- **ATC** Type **DVS**

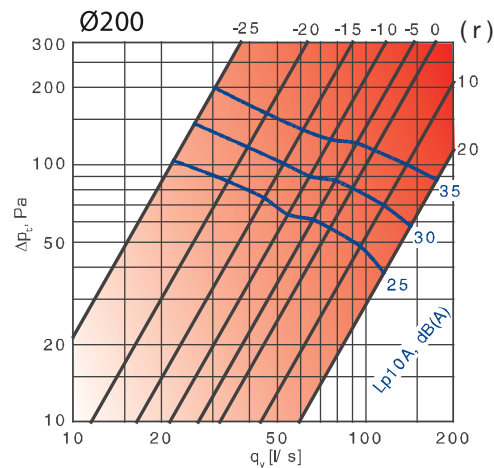
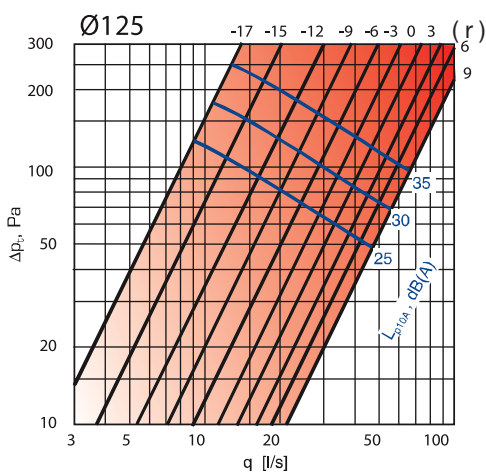
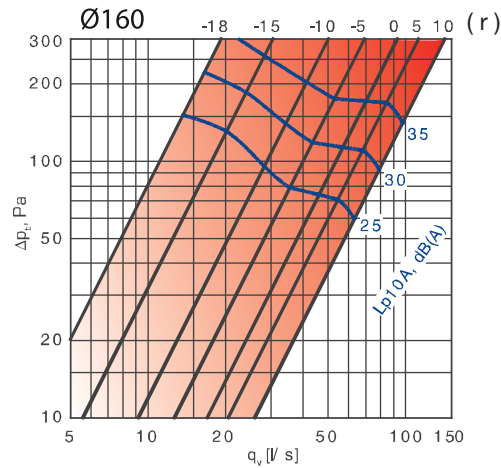
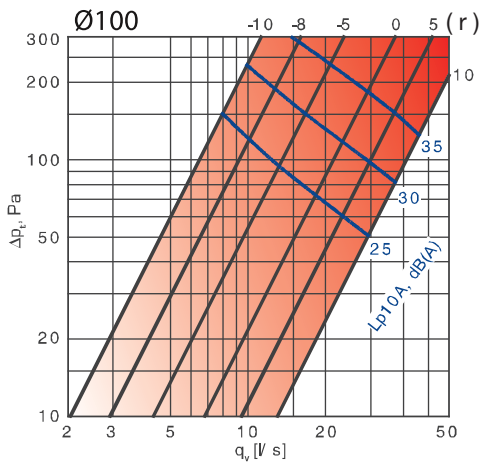
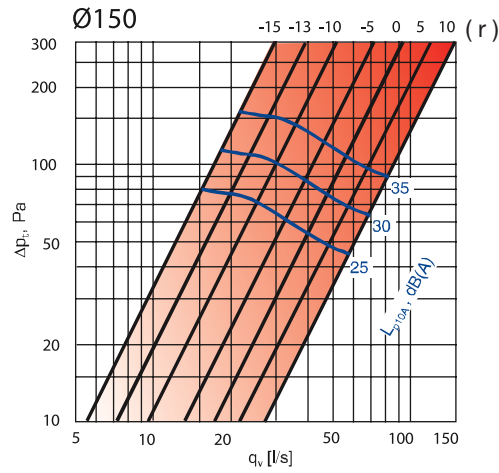
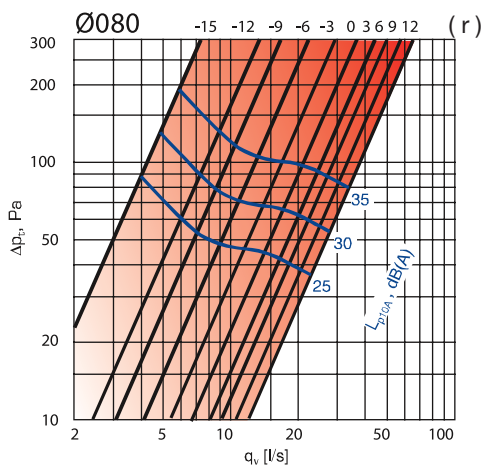
Quick selection

Qv	Ø r	80			100			125			150			160			200		
		-15	0	+12	-10	0	+10	-17	0	+9	-15	0	+10	-20	0	+5	-25	0	+20
15	Ps	100			90			30											
	Lw	31			19			<15											
	Ps		<20			<20		80			20			30				<20	
25	Lw		<15			<15		23			<10			<15				15	
	Ps		45			40	<20			<20		65		125				90	
	Lw		29			24	<15			<15		26		31				25	
50	Ps			55			55			35	<20		22			20			
	Lw			34			28			20	<15		<15			<15			
	Ps									70			110	44		75	45		37
100	Lw									34			39	28		34	29		23
	Ps												90			105		85	23
	Lw												39			40		35	15
200	Ps																		40
	Lw																		27

Symbols and specifications

- Qv = Air volume in m³/h
- Ps = Static pressure loss in Pa
- Lw = Acoustic power in dB(A), based upon measured Lp acoustic pressures increased by 4 dB(A) room attenuation
- r = Gap between the central core and the valve body

Selection Graph



Symbols

- Q_v = Air volume in l/s
- P_t = Total pressure loss in Pa
- L_{p10A} = Acoustic pressure in dB(A) with 4dB room attenuation (10m²sab)
- r = Gap between the central core and the valve body

Correction factor Koct (dB)

DVS	f [Hz]						
	125	250	500	1000	2000	4000	8000
80	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

Symbols and specifications

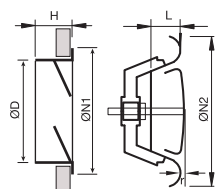
- To Obtain the sound power level Lw octave by octave band the value Koct need to be added to the graph value Lp10A according the formula = $Lw_{oct} = Lp10A + K_{oct}$
- The correction factors Koct given are the average values over the range of DVS
- f [Hz] = Octave band in Hertz
- Koct = Correction factor in dB per octave band

Sound attenuation DL

DVS	r [mm]	f [Hz]							
		63	125	250	500	1000	2000	4000	8000
80	-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.±	6	3	2	2	2	2	2	2	3

Symbols and specifications

- The above table shows the attenuation DL from duct to room, including end reflection of a flexible connection by ceiling installation.
- r = setting of the central cone in mm


Dimensions

	ØD [mm]	ØN1 [mm]	h [mm]	ØN2 [mm]	L [mm]
DVS 080	79	105	45	115	27
DVS 100	99	125	45	137	28
DVS 125	124	150	45	164	29
DVS 150	149	175	45	202	30
DVS 160	159	185	45	212	31
DVS 200	199	225	45	248	33

- Clamping rings
- Polystyrene
- White



Clamping rings for valve mounting frames type TR

Clamping rings for fixing valve mounting frames

Mounting

- To be applied when fixing mounting frames of ventilation valves into ceiling panels
- Ideal for mounting of valves into soft ceiling system plates made out of mineral wool

Order example

- **TR, 100**

Explanation

TR = Clamping ring

100 = Duct size

