



Steel supply valves type P-DVS

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

Application

- Wall or ceiling mounted valves **P-DVS** are used for air supply 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

- **P-DVS, 100**

Explanation

P-DVS = Type valve (incl. mountingframe and clamping ring)

100 = Connection diameter

Text for tender

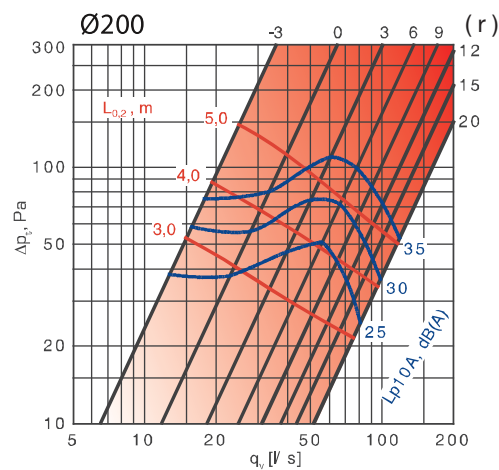
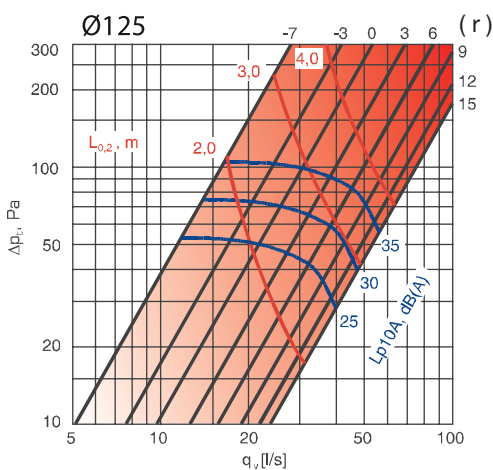
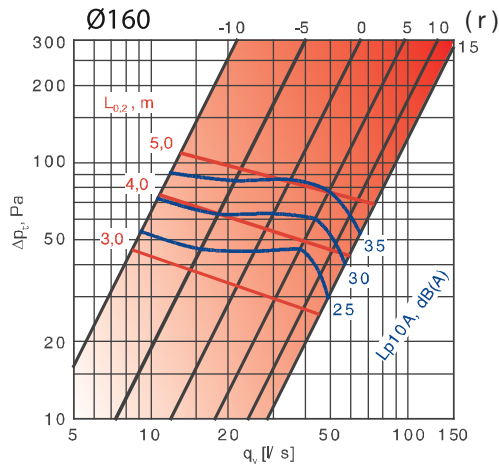
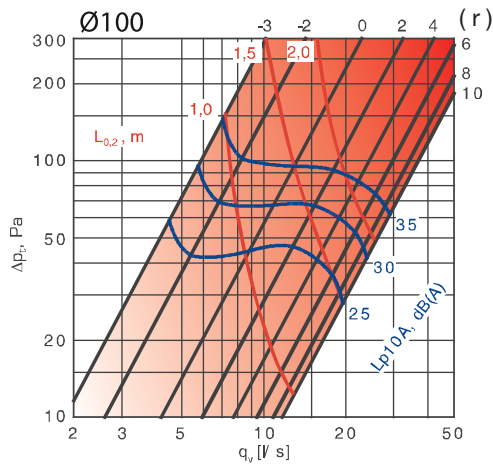
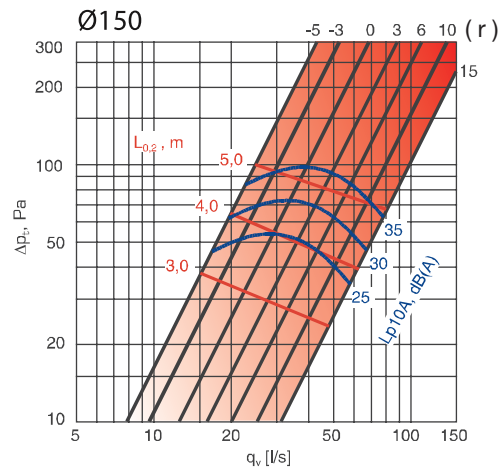
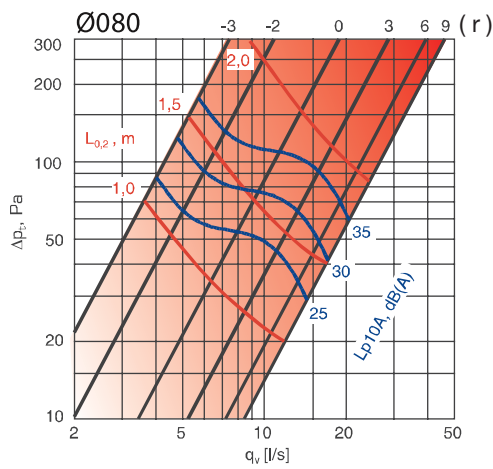
- The air supply valves shall be of the high pressure loss type with adjustable core and made of steel. They shall be supplied with mounting frame
- White finish RAL 9010
- **ATC** Type **P-DVS**

Quick selection

Qv	Ø	80			100			125			150			160			200			
		r	-3	0	+9	-3	0	+10	-7	0	+15	-5	0	+15	-10	0	+15	-3	0	+20
15	Ps	91			90															
	Lw	32			30															
			41			39		<20												
25	Ps							<15												
	Lw		23			22														
				27			<20	75	20		30			85				100		
50	Ps			26			<15	34	<20		24			41				33		
	Lw																			
							52		80	<20		50			37				80	
100	Ps						38		37	<15		28			24				34	
	Lw																			
										55			30			25				<20
200	Ps									39			27			23				<10
	Lw																			
													70		55					25
300	Ps												41		37					22
	Lw																			
																				45
400	Ps																			
	Lw																			31

Symbols and specifications

- Qv = Air volume in m³/h
- Ps = Static pressure loss in Pa
- Lth 0.20 = Horizontal throw at end velocity of 0.20 m/s in m
- 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
- $l_{0.2}$ = Horizontal throw at end velocity of 0.20 m/s in m
- L_p = Acoustic pressure in dB(A)
- r = 10mm, 30mm = Gap between the central core and the valve body

Correction factor K_{oct} (dB)

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

Symbols and specifications

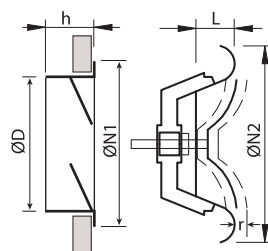
- To Obtain the sound power level L_w octave by octave band the value K_{oct} need to be added to the graph value L_{p10A} according the formula = L_w oct = L_{p10A} + K_{oct}
- The correction factors K_{oct} given are the average values over the range of DVS
- f [Hz] = Octave band in Hertz
- K_{oct} = Correction factor in dB per octave band

Sound attenuation DL

P-DVS	r [mm]	f [Hz]							
		63	125	250	500	1000	2000	4000	8000
80	-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

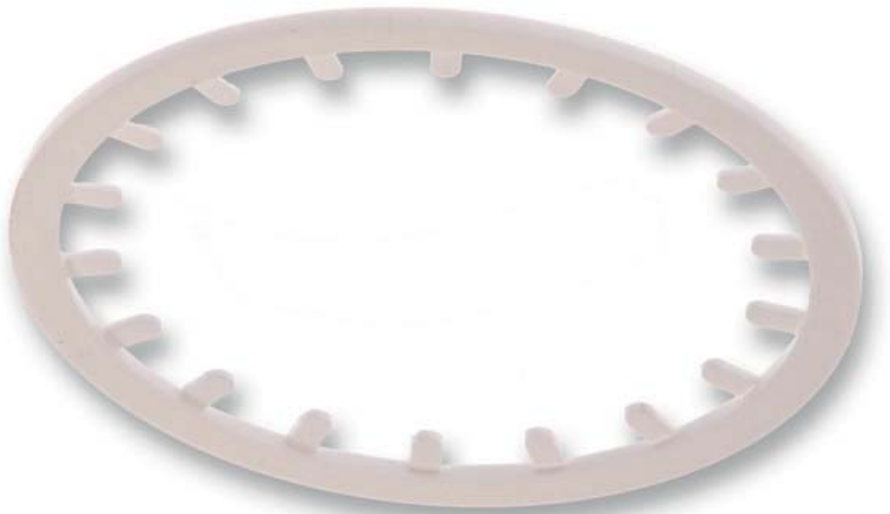
Symbols and specifications

- 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]
P-DVS 080	79	105	45	115	27
P-DVS 100	99	125	45	137	28
P-DVS 125	124	150	45	164	29
P-DVS 150	149	175	45	202	30
P-DVS 160	159	185	45	212	31
P-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

