DEC INTERNATIONAL TECHNICAL SPECIFICATIONS



DTVB SUPPLY AIR VALVE AIR MANAGEMENT SYSTEMS

PRODUCT PROPERTIES

The **DTVB** is a supply air valve for ceiling mounting in offices, houses and hotel rooms. The air discharged from the valve is mixed thoroughly with the room air thus providing a draught-free air supply.

- Supply air valve intended for installation in the ceiling •
- Manufactured of steel

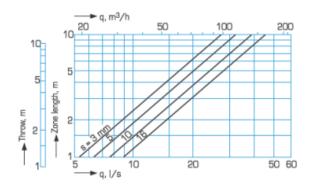
Quick selection

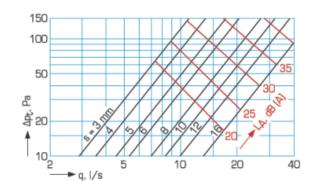
DTVB100

DTVB125

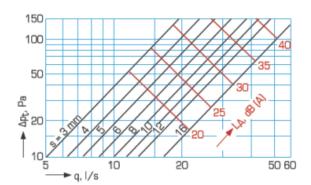
Diffuser	Connection	Air flow range l/s (m ₃ /h) at noise level					
Size	mm	25 dB	30 dB	35 dB			
DTVB100	100	21	27 (97)	32			
DTVB125	125	28	33 (119)	42			

Air flow, zone length, throw, sound level ► q, m³/h 10 8 20 50 100 140 10 10 5 5 E length, Throw, m Zone 2 2 4 2 5 10 20 30 40 ► q, l/s s = opening





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PLEASE NOTICE: PLEASE NOTICE: The consultant is responsible for the actual installation and mounting of the product. The mentioned values with respect to temperatures are not appropriate to be used to determine the physical properties. These properties are also dependent on humidity and the temperature of the air inside and outside of the H.V.A.C. system.

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DTVB SUPPLY AIR VALVE AIR MANAGEMENT SYSTEMS

Sound power level

Size	Size Connection		Correction of sound attenuation (dB) at Hz								
Size	Connection	63	125	250	500	1000	2000	4000	8000		
100	Straight	2	-3	-3	0	-1	-1	-9	-16		
100	Angle	4	-2	-3	-1	-1	-1	-7	-14		
125	Straight	3	2	1	1	0	-3	-9	-12		

Sound power levels by octave bands are obtained by adding to total sound pressure level Lp10A, dB(A) the corrections Koct presented in the table according to the following formula: $L = L_{A10} + K_{ok}$ Correction Koct is average value in range of use of DTVB unit.

Air stream diffusion

 $B_v = I_{0,2} \times 0,1$ $B_h = I_{0,2} \times 1,0$

where $I_{0,2} = 1,2 \text{ x}$ zone length

Note! In installations when DTVB is mounted with angle duct DGEZ-43 the sound power level will increase by 3 dB(A).

Sound attenuation, dimensions and weights

Sound attenuation

Size	Connection	Sound attenuation in dB at								
Size	Connection	63	125	250	500	1000	2000	4000	8000	
100	Straight	25	22	17	13	12	11	11	11	
100	Angle	27	23	18	14	12	11	11	12	
125	Straight	25	20	15	12	11	9	9	9	

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.

Dimensions and weights

Size	А	В	С	D 1)	Smin	Smax	Weight
Size	mm	mm	mm	mm	mm	Mm	kg
100	155	140	65	100	3	16	0,45
125	185	165	70	125	3	16	0,58
1) Naminal connection diameter							

1) Nominal connection diameter

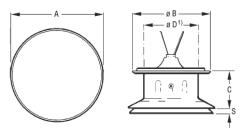
Mounting ring DGEZ-01, insertion connection

Size	А	D1	Hole 1)	Weight
3120	mm	mm	mm	kg
100	125	99.3	110	0.1
125	150	124.3	135	0.1

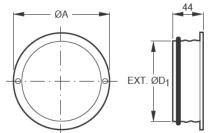
1) Tolerance ± 5 mm

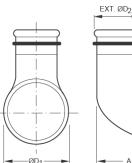
Angle duct DGEZ-43

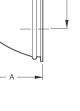
Size	А	В	С	D1	D2	Weight
5120	mm	mm	mm	mm	mm	kg
100-080	120	39	148	125	79.3	0.4
100-100	140	39	98	125	99.3	0.4
120-100	146	45	120	140	99.3	0.5



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DTVB SUPPLY AIR VALVE AIR MANAGEMENT SYSTEMS

Installation, adjustment, application and function, material

Application and function

The DTVB is a supply air valve for one-way air diffusion and ceiling mounting. The valve is suitable for use in small premises, such as offices, houses and hotel rooms. The air discharged from the valve is mixed thoroughly with the room air thus providing a draught-free air supply. The direction of air diffusion and the air flow are adjustable.

The design of the DTVB minimizes the risk of dust deposits forming on the ceiling surface. The valve is easy to install and easy to keep clean since it has large, smooth surfaces.

Material and surface finish

The valve is made from hot-dip galvanized steel sheet. Visible parts are powder-coated for a high surface finish and good impact and scratch resistance. Standard colour White RAL 9003. Other colours on request.

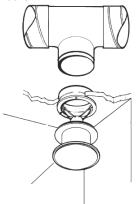
Instructions

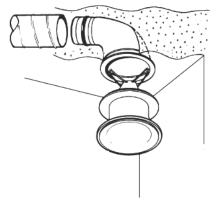
Directions for installation, adjustment and care are set out in detail in our technical instruction which accompanies each product.

Installation

Supply air valve connected to a mounting ring

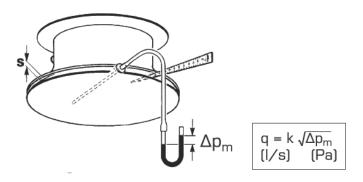
Supply air valve connected to an angle duct





Adjustment

	k					
S	100	125				
3	0.9	-				
4	1.2	2.0				
5	1.4	2.3				
6	1.7	2.6				
7	1.9	3.0				
8	2.1	3.3				
10	2.6	4.0				
12	3.1	4.7				
16	4.1	6.0				
20	-	-				





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