DEC INTERNATIONAL TECHNICAL SPECIFICATIONS



DTVK SUPPLY AIR VALVE

DUTCH ENVIRONMENT CORPORATIO

AIR MANAGEMENT SYSTEMS

PRODUCT PROPERTIES

POWDER COATED METAL SUPPLY VALVE

The DTVK is a very quiet supply air valve designed for wall 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 room air thus providing a draught-free air supply.

The air flow is adjustable.

The DTVK-125 has different mounting springs and a cover plate, but the values are the same as DTVK-100.

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

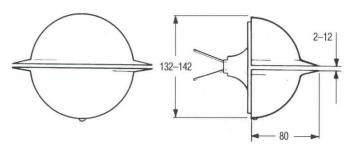
The DTVK is made of hot galvanized sheet steel and stove enamelled in white (RAL9003).

	SOUND ATTENUATION ΔL									
DTVK	Middle frequency by octave band (Hz)									
	63	125	250	500	1k	2k	4k	8k		
100	24	20	18	12	10	10	10	10		
Tol.±	6	3	2	2	2	2	2	3		

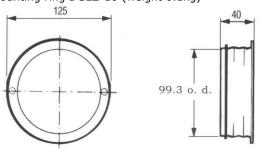
The average sound attenation ΔL from duct to room including the end reflection of the connecting duct in wall installation, is obtained in the table above.

DIMENSIONS (IN MILLIMETRES)

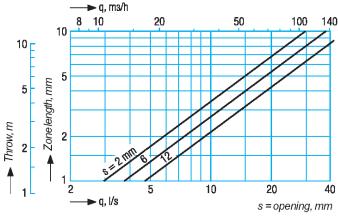
Supply air valve DTVK-100 (weight 0.4kg)

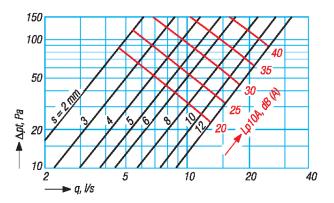


Mounting ring DGEZ-10 (weight 0.1kg)



Air flow, zone length, throw, pressuredrop





Air stream diffusion

 $Bv = 0.1 \times L_{0.2}$

 $Bh = 0.6 \times L_{0.2}$

Where $L_{0.2} = 1.2 x$ zone length



LIABILITY:

The information contained in this brochure was current on the publication date. DEC INTERNATIONAL reserves the right to make changes in details at any time without prior notice. In order to avoid misunderstandings, any interested party is advised to contact DEC INTERNATIONAL checking for any changes in materials and/or information after this brochure was published.

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.

TRADEMARKS:

DEC International and the DEC logo are trademarks, or registered trademarks or Dutch Environment Corporation BV in the Netherlands and/or other countries.

DEC INTERNATIONAL **TECHNICAL SPECIFICATIONS**



DTVK SUPPLY AIR VALVE AIR MANAGEMENT SYSTEMS



SOUND POWER LEVEL LW

	CORECTION Koct								
DTVK	Middle frequency by octave band (Hz)								
	63	125	250	500	1k	2k	4k	8k	
100	2	-3	-3	0	0	-3	-6	-10	
Tol.+/-	6	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:

$L_{Woct} = L_{p1-A} + K_{oct}$

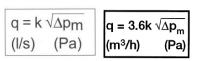
Correction K_{oct} is average value in range of use of DTVK unit.

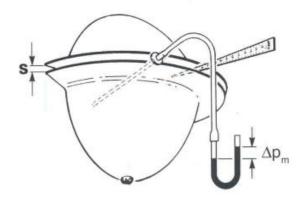
ADJUSTMENT

1.55001112111									
DTVK	S,mm	2	3	4	5	6	8	10	12
100	k	0.48	0.71	0.94	1.2	1.4	1.8	2.2	2.7

efi			

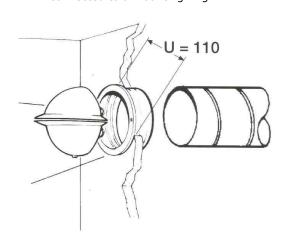
Definitions:								
q	air volume	$(l/s),(m^3/h)$						
Δp_t	total pressure drop	(Pa)						
L_{p10A}	sound pressure level with 4dB							
	Room attenuation (10m²sab)	[dB(A)]						
L_{Woct}	sound power level	(dB)						
ΔL	sound attenuation	(dB)						
K_{oct}	correction	(dB)						
$L_{0.2}$	throw corresponding 0.2m/s Final velocity	(m)						





INSTALLATION

DTVK connected to a mounting ring





LIABILITY:

LIABILITY:
The information contained in this brochure was current on the publication date.
DEC INTERNATIONAL reserves the right to make changes in details at any time without prior notice. In order to avoid misunderstandings, any interested party is advised to contact DEC INTERNATIONAL checking for any changes in materials and/or information after this brochure was published.

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.

DEC International and the DEC logo are trademarks, or registered trademarks of Dutch Environment Corporation BV in the Netherlands and/or other countries.