

# SUPPLY AIR VALVE DTVK

## Metal Supply Air Valve.



Orderingcode: **DTVK-100**

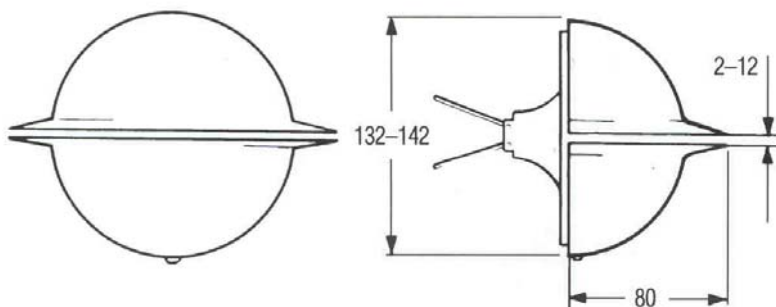
The **DTVK** is a very quiet supply air valve designed for wall mounting. The valve is suitable for use in small premises, such as offices, houses and hotel rooms. The air discharged from the valve is mixed thoroughly with room air thus providing a draught-free air supply. The air flow is adjustable.

The 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.

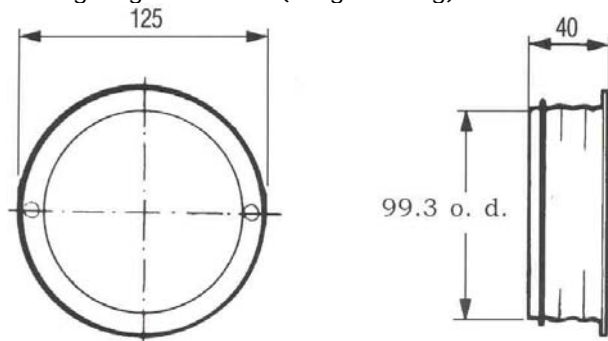
The **DTVK** is made of hot galvanized sheet steel and stove enamelled in white (RAL9010).

## Dimensions and weights

Supply air valve **DTVK-100** (weight 0.4kg)



Mounting ring **DGEZ-10** (weight 0.1kg)



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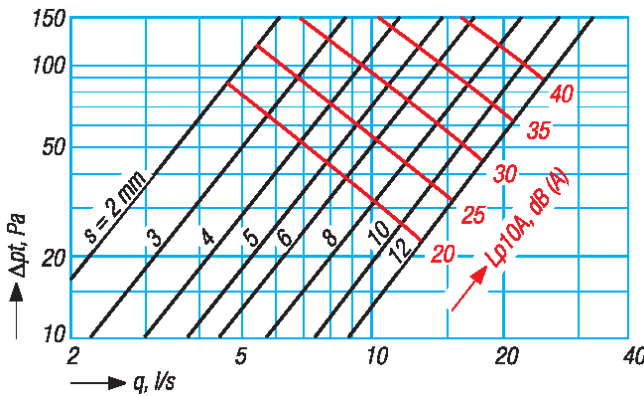
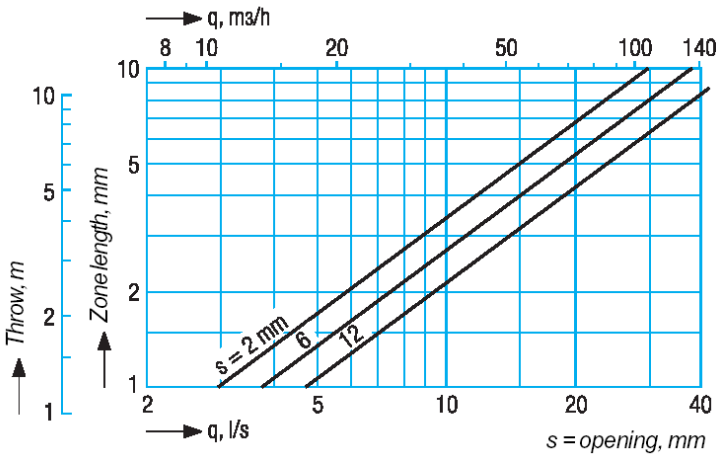
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# SUPPLY AIR VALVE DTVK

DTVK	SOUND ATTENUATION $\Delta L$							
	Middle frequency by octave band (Hz)							
	63	125	250	500	1000	2000	4000	8000
<b>100</b>	24	20	18	12	10	10	10	10
<b>Tol. +/-</b>	6	3	2	2	2	2	2	3

The average sound attenuation  $\Delta L$  from duct to room including the end reflection of the connecting duct in wall installation, is obtained in the table above.

### Air flow, zone length, throw, pressuredrop



### Air stream diffusion

$Bv = 0.1 \times L_{0.2}$   
 $Bh = 0.6 \times L_{0.2}$   
 Where  $L_{0.2} = 1.2 \times \text{zone length}$

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# SUPPLY AIR VALVE DTVK

## SOUND POWER LEVEL $L_w$

DTVK	CORECTION $K_{oct}$							
	Middle frequency by octave band (Hz)							
	63	125	250	500	1000	2000	4000	8000
<b>100</b>	2	-3	-3	0	0	-3	-6	-10
<b>Tol. +/-</b>	6	3	2	2	2	2	2	3

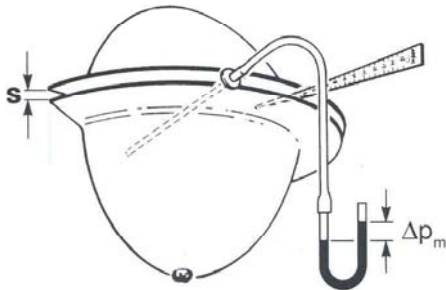
Sound power levels by octave bands are obtained by adding to total sound pressure level  $L_{p10A}$ , dB(A) the corrections  $K_{oct}$  presented in the table according to the following formula:

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

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

## ADJUSTMENT

$q = k \sqrt{\Delta p_m}$ (l/s)      (Pa)	$q = 3.6k \sqrt{\Delta p_m}$ (m <sup>3</sup> /h)      (Pa)
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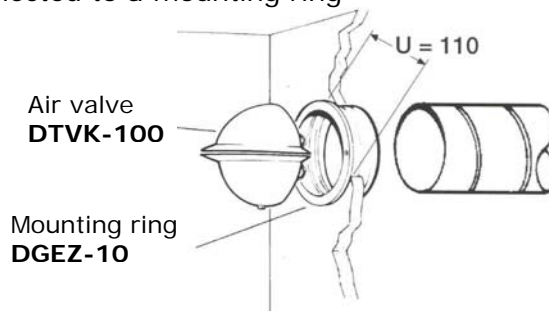


Definitions:		
<b>q</b>	air volume	(l/s), (m <sup>3</sup> /h)
<b>Δp<sub>t</sub></b>	total pressure drop	(Pa)
<b>L<sub>p10A</sub></b>	sound pressure level with 4dB Room attenuation (10m <sup>2</sup> sab)	[dB(A)]
<b>L<sub>woct</sub></b>	sound power level	(dB)
<b>ΔL</b>	sound attenuation	(dB)
<b>K<sub>oct</sub></b>	correction	(dB)
<b>L<sub>0.2</sub></b>	throw corresponding 0.2m/s	(m)
	Final velocity	(m)

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

## INSTALLATION.

**DTVK** connected to a mounting ring



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