

## Supply air valve – for ceiling CKT



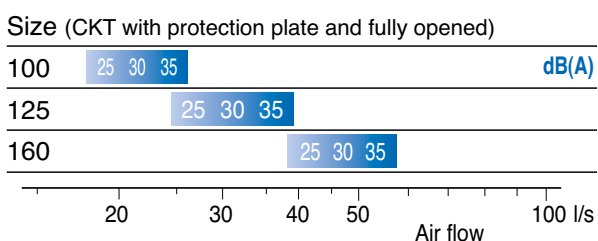
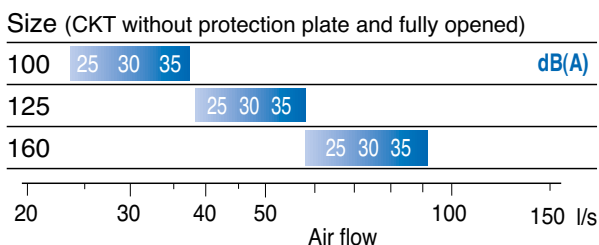
### Uses

The supply-air valve CKT is designed to be installed in the ceiling in smaller houses and offices. CKT is fitted with a device that can adjust the air diffusion. A protection plate, SP, can be fitted to protect the surrounding ceiling from getting dirty.

### Design

The valve has a modern design, aimed to fit into most interiors. CKT is made of sheet steel. It is stove enamelled in white epoxy colour (RAL 9010) which gives a glossy and dirt rejecting surface. The valve is equipped with a cellular plastic gasket to form an airtight seal with the mounting ring.

### Quick selection table, Airflow-Sound level



### Regulation of air flow

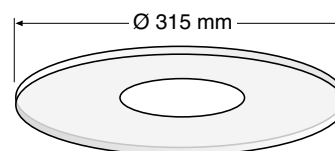
Luftflödet bestäms av spaltöppningen och regleras genom att rotera tallriken. Vid tryckmätning används mätsond. Injusteringsdiagram finns i REC:s häfte för "Injustering & skötsel".

### Installation

With mounting ring (CKT standard) or mounting with a spring socket (product name: CKTF).

### Accessories

Mounting rings ZR, ZRT or ZRL.  
Rings ZR, ZRT och ZRL fit ducts.  
Protection plate SP.



### When ordering, please state:

Supply air valve CKT - 125 - ZR - SP

Product \_\_\_\_\_

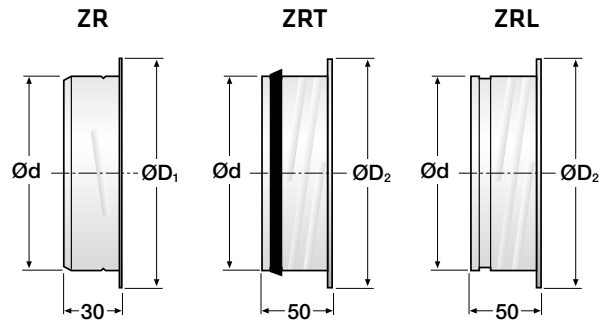
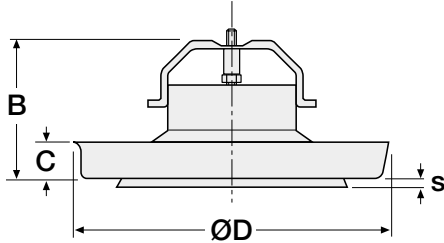
Dimension \_\_\_\_\_

Accessories \_\_\_\_\_

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CKT

## Measurement and weight

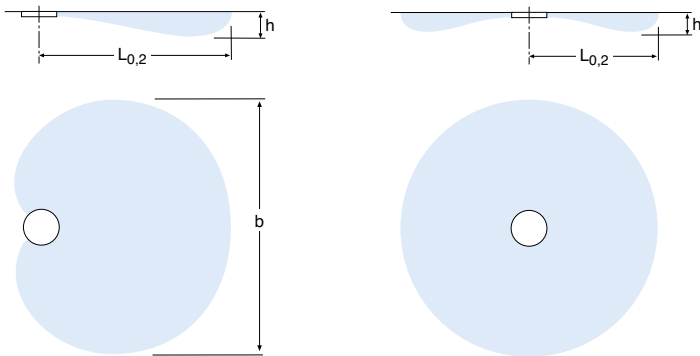


Size	ØD (mm)	B (mm)	C (mm)	Weight (g)
100	143	67	17	270
125	173	76	18	430
160	216	80	19	580

Size	Ød (mm)	ØD <sub>1</sub> (mm)	ØD <sub>2</sub> (mm)	ØDs (mm)	ZR (g)	ZRT/ZRL (g)
100	99	125	125	98	50	75
125	124	155	150	123	65	100
160	159	186	185	158	100	130

## Diffusion

Isothermal air supply, jet throw  $L_{0,2}$  m/s



Regulation	Δ t (°C)	b	h	k
s = 4	0	$1,45 \times L_{0,2}$	$0,04 \times L_{0,2}$	1
s = 4	-10	$1,45 \times L_{0,2(\Delta t)}$	$0,08 \times L_{0,2(\Delta t)}$	0,8
s = 15	0	$1,45 \times L_{0,2}$	$0,04 \times L_{0,2}$	1
s = 15	-10	$1,45 \times L_{0,2(\Delta t)}$	$0,10 \times L_{0,2(\Delta t)}$	0,75

$$L_{0,2}(\Delta t) = k \times L_{0,2}$$

## Sound attenuation

### Sound power level $L_w$

The sound power level in octave band  $L_{w_{okt}}$ , dB is obtained by adding the sound level  $L_{p10A}$ , dB(A) shown in the charts to the correction factor:

$$L_{w_{okt}} = L_{p10A} + K_{okt}$$

### CKT

Correction factor in octave band  $K_{okt}$  (dB)

Size	Medium frequency (Hz)						
	125	250	500	1000	2000	4000	8000
100	2	2	0	-2	-4	-4	-12
125	3	3	3	0	-8	-15	-29
160	7	4	2	-1	-6	-17	-31
Tol.±	3	2	2	2	2	2	3

### CKT without protection plate

Correction factor in octave band  $K_{okt}$  (dB)

Size	Medium frequency (Hz)						
	125	250	500	1000	2000	4000	8000
100	-2	2	1	-1	-4	-5	-11
125	4	5	3	-1	-11	-17	-29
160	7	6	3	-2	-11	-19	-32
Tol.±	3	2	2	2	2	2	3

### Sound attenuation $\Delta L$

The sound attenuation  $\Delta L$ , shows the reduction of the sound power level calculated from duct to room.

Correction factor in octave band  $K_{okt}$  (dB)

Size	Medium frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
100	22	18	13	11	9	8	7	8
125	20	16	11	9	9	7	6	5
160	18	14	10	9	9	7	6	6
Tol.±	6	3	2	2	2	2	2	3

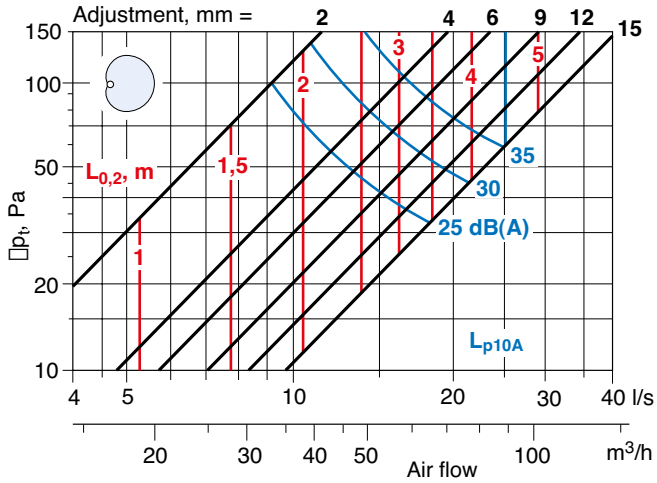
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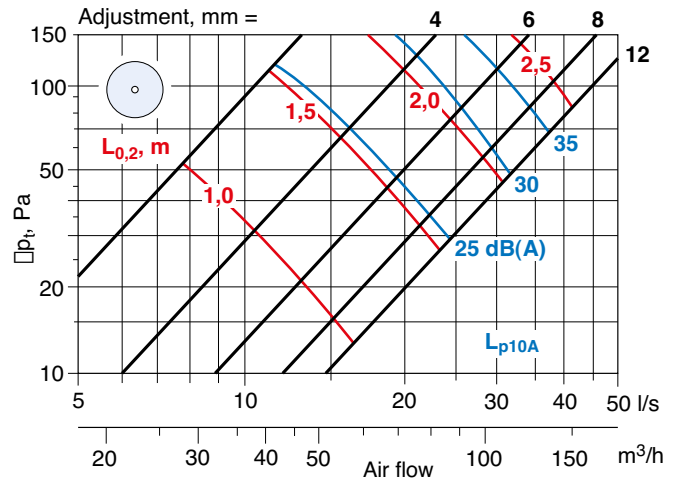


## Installation diagram

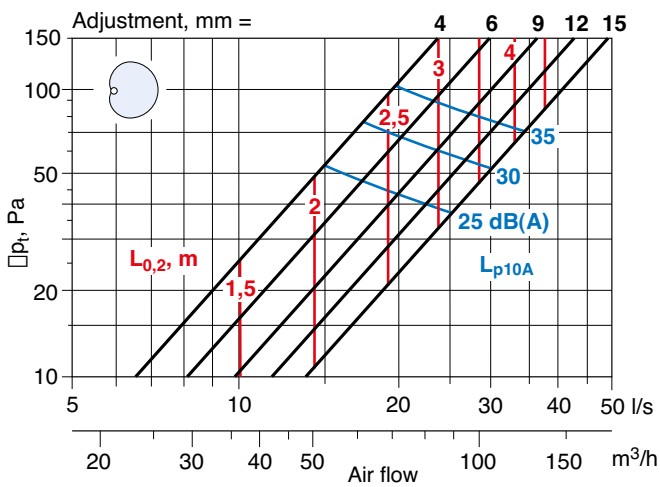
CKT 100



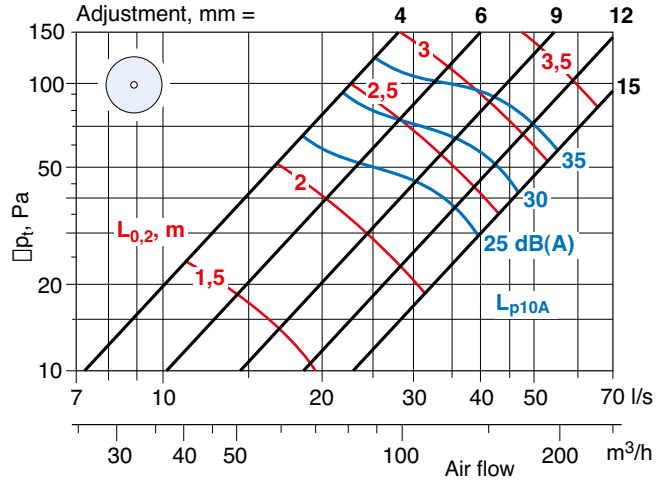
CKT 100 without sector plate



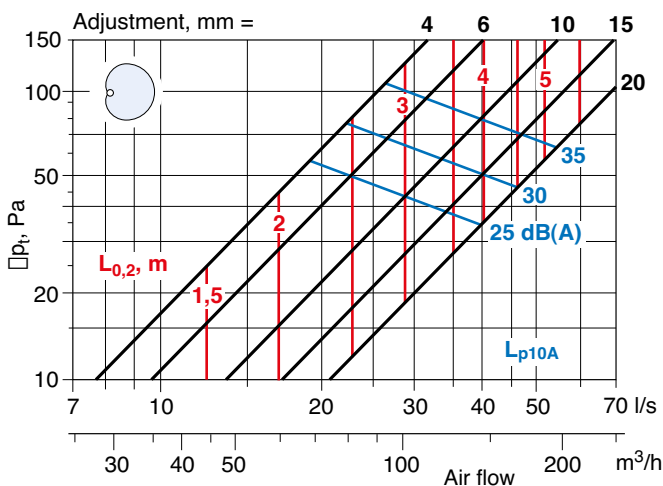
CKT 125



CKT 125 without sector plate



CKT 160



CKT 160 without sector plate

