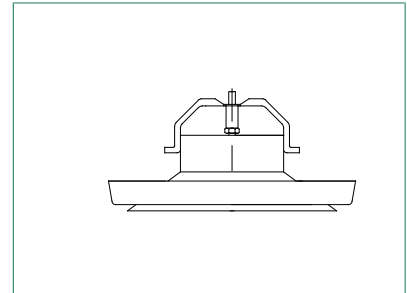
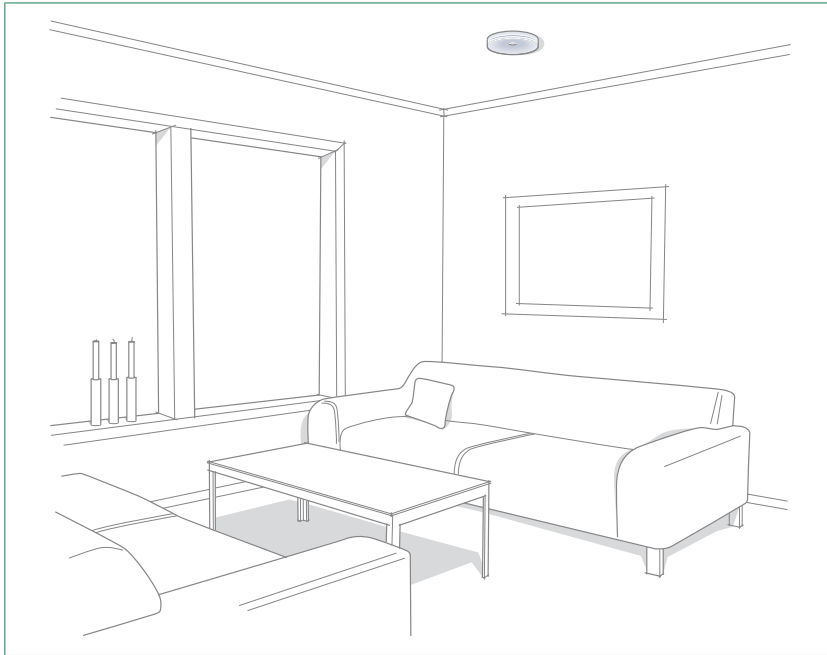


KTS Supply air valve



KTS valve is a supply air valve for ceiling mounting in offices, houses etc.

Quick Selection (50 Pa)

Size		Air flow range l/s at sound level		
		25 dB	30 dB	35 dB
KTS-100-C	with sector plate	15	22	-
KTS-100-C	without sector plate	19	29	-
KTS-125-C	with sector plate	20	28	-
KTS-125-C	without sector plate	25	42	-
KTS-160-C	with sector plate	20	42	-
KTS-160-C	without sector plate	40	66	-

Specifications

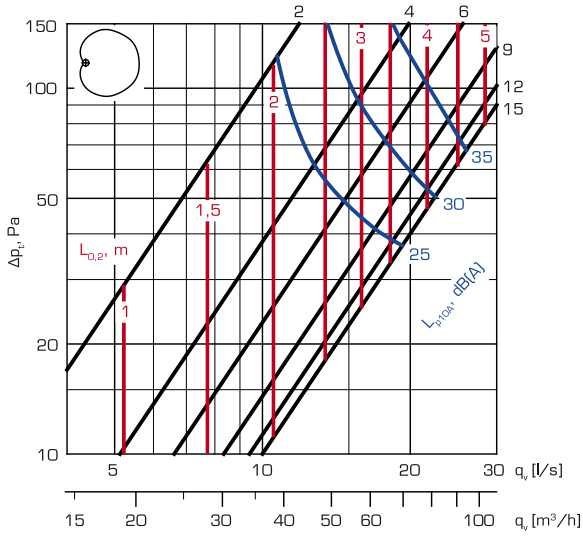
- CleanVent coating as standard
- Manufactured of steel
- Equipped with a sector plate for direction of the air flow

Product code example

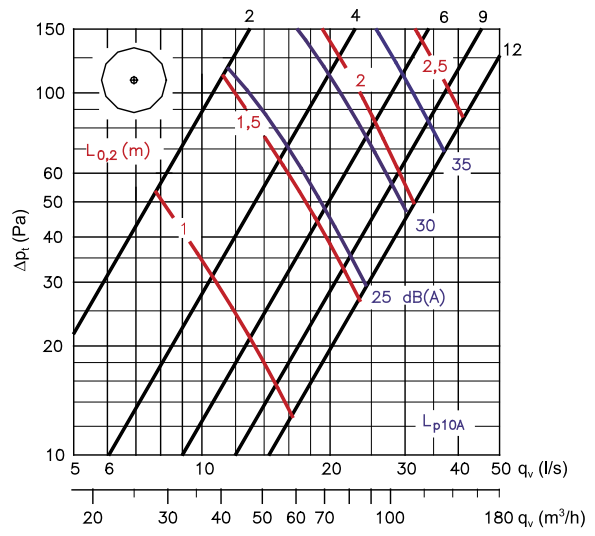
Supply air valve KTS-100-C

Selection diagrams

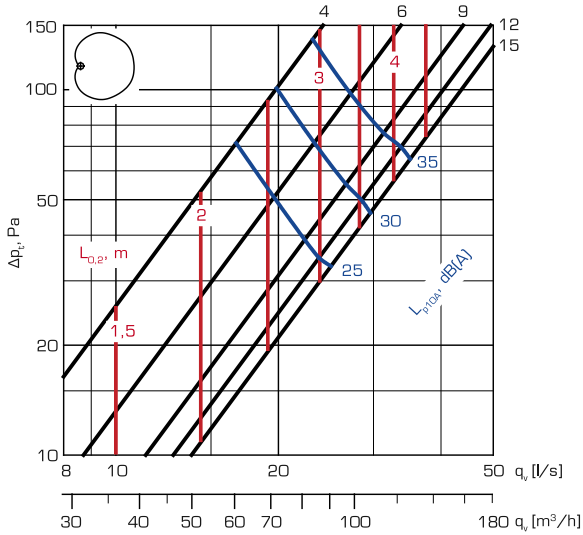
KTS-100-C with sector plate



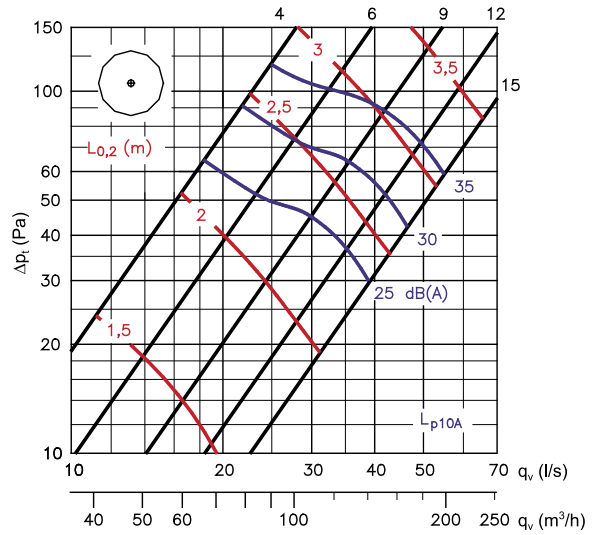
KTS-100-C without sector plate



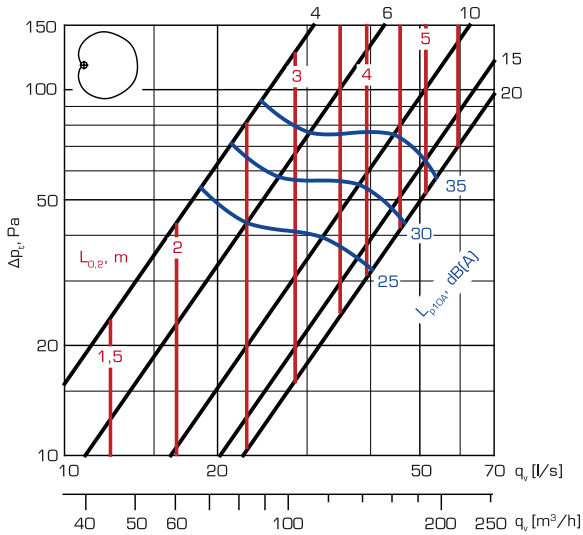
KTS-125-C with sector plate



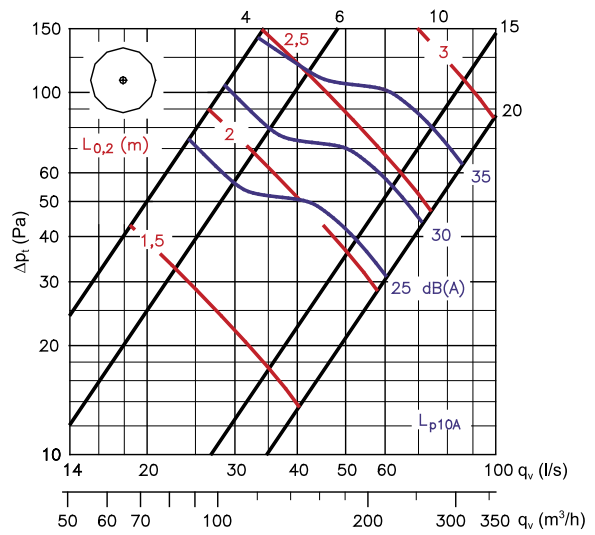
KTS-125-C without sector plate



KTS-160-C with sector plate



KTS-160-C without sector plate



Sound power level L_w

KTS with sector plate

KTS	Correction of sound level in dB at octave bands, middle 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

KTS without sector plate

KTS	Correction of sound level in dB at octave bands, middle 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 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:

$$L_{Woct} = L_{p10A} + K_{oct}$$

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

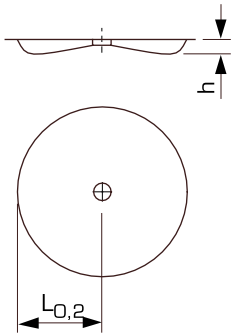
Sound attenuation ΔL

KTS	Sound attenuation in dB at octave bands, middle 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

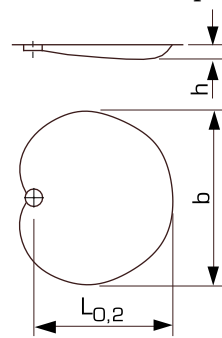
The average sound attenuation ΔL from duct to room including the orifice attenuation of the connecting duct in ceiling installation, is obtained in the table above.

Diffusion pattern

KTS without sector plate



KTS with sector plate



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

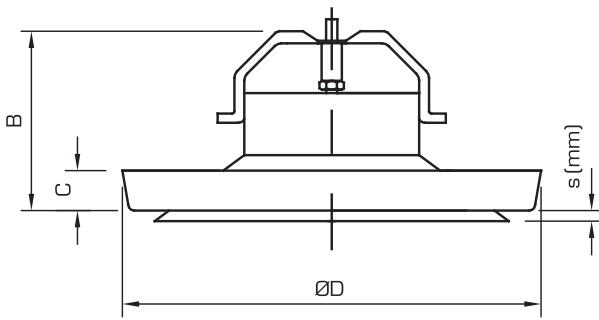
Regulation	Δt [°C]	b	h	k
s=4	0	$1.45 \times L_{0,2}$	$0.04 \times L_{0,2}$	1.0
s=4	-10	$1.45 \times L_{0,2(\Delta t)}$	$0.08 \times L_{0,2(\Delta t)}$	0.8
s=15	0	$1.45 \times L_{0,2}$	$0.04 \times L_{0,2}$	1.0
s=15	-10	$1.45 \times L_{0,2(\Delta t)}$	$0.1 \times L_{0,2(\Delta t)}$	0.75

Throw in free space mounting

In case of free space mounting the throw can be calculated by using the following factors: when $\Delta t = 0^\circ\text{C}$:

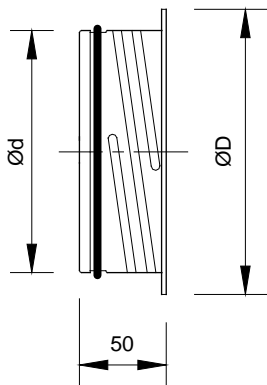
Adjustment s (mm)	factor
4	0.5
9	0.45
15	0.4

Dimensions and weight

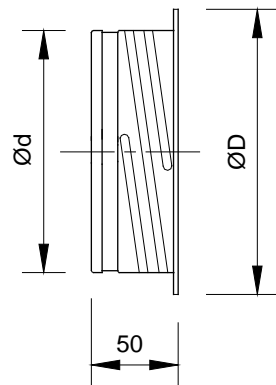


Size	ØD [mm]	B [mm]	C [mm]	Weight [kg]
100	143	67	17	0.270
125	173	76	18	0.430
160	216	80	19	0.580

KKT

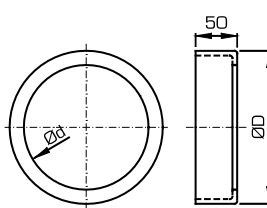


KKL

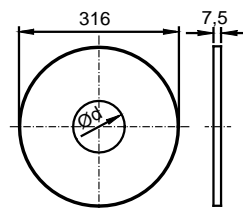


Size	Pack size	Ød [mm]	ØD [mm]	Weight KKT [g]	Weight KKL [g]
100	56	99	122	75	71
125	36	124	148	102	97
160	25	159	184	131	125

KR



SL



KR	ØD [mm]	Ød [mm]
100	150	100
125	180	125
160	223	160

SL	Ød [mm]
100	102
125	130
160	160

General

Construction

KTS valve is a supply air valve for ceiling mounting in offices, houses etc. The body is equipped with cellular plastic gasket to form an airtight seal with the mounting ring. The valve is equipped with a sector plate for direction of the air flow. Adjustment of the valve or sector plate is achieved by simply rotating the disc and/or sector plate to the desired setting and secured by means of a single lock nut.

The KTS is manufactured from sheet steel and powder coated in white (RAL 9003). Other colours are available to special order. CleanVent coating as standard.

Mounting rings KKL and KKT are manufactured from galvanized steel sheet. KKT is equipped with rubber sealing gasket.

Installation

Mounting ring KKL or KKT is fitted into the duct with screws or rivets. The valve is fitted into the mounting ring by a "screwing action" to locate lugs into indents in the mounting ring. The valve can also be fitted with springs (model KTSJ) and the mounting ring is not needed.

Measurement and regulation of air flow

The measurement of air flow is made by a pressure difference measurement with a separate measuring tube. Air flow can be adjusted by changing the adjustments by rotating the disc.

Accessories

In order to protect the ceiling an extra protection plate SL and extension collar KR are available, both made of sheet steel and stove enamelled white. The protection plate is fitted between the air valve and the ceiling.

Descriptive text

Supply air valve KTS, e.g. KTS-160-C manufactured by FläktGroup.

Product code

Supply air valve

Supply air valve with springs

Size (aaa)

100, 125, 160

Surface finish (b)

C = Standard CleanVent coating

E = Special colour

KTS-aaa-b

KTSJ-aaa-b

Accessories and spare parts

Accessories

Mounting ring with rubber gasket

KKT-aaa

Mounting ring without rubber gasket

KKL-aaa

Size (aaa)

100, 125, 160

Protection plate

SL-aaa

Extension collar

KR-aaa

Size (aaa)

100, 125, 160

Spare parts

Seal

COGZ-aaa-2

Size (aaa)

100, 125, 160