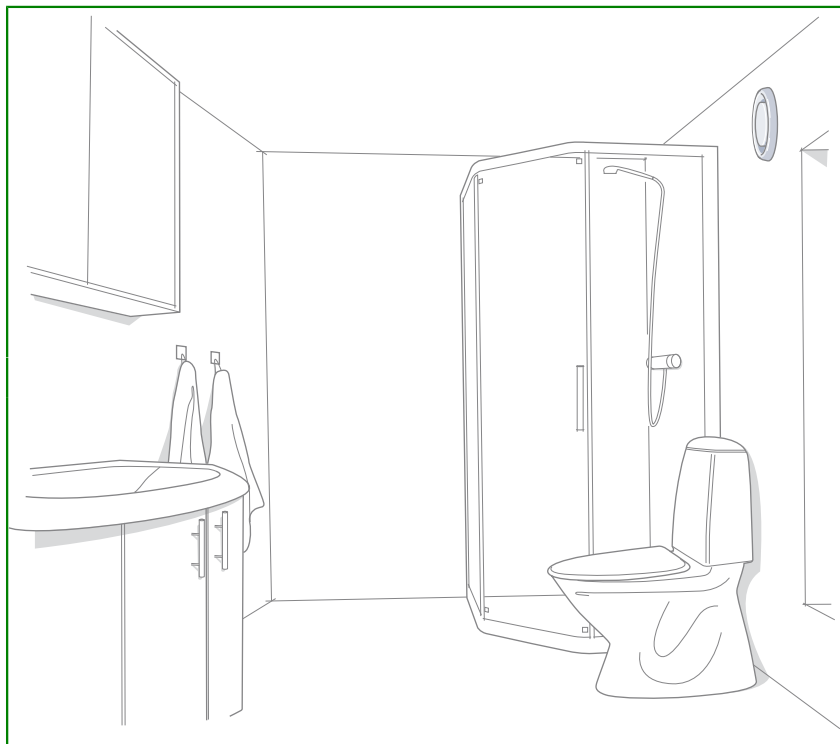
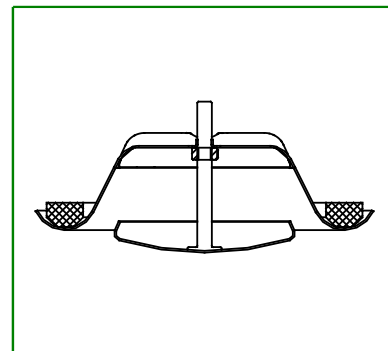




**Mech-Elec**<sup>®</sup>



## KK Exhaust valve



KK is an exhaust valve suitable for offices, houses, etc.

### Quick Selection

Valve Size	Air flow range l/s (m <sup>3</sup> /h) at sound level		
	25 dB(A)	30 dB(A)	35 dB(A)
KK-80	23	28(101)	34
KK-100	30	37(133)	45
KK-125	46	57(205)	68
KK-150	58	70(252)	81
KK-160	64	80(288)	98
KK-200	120	140(504)	170

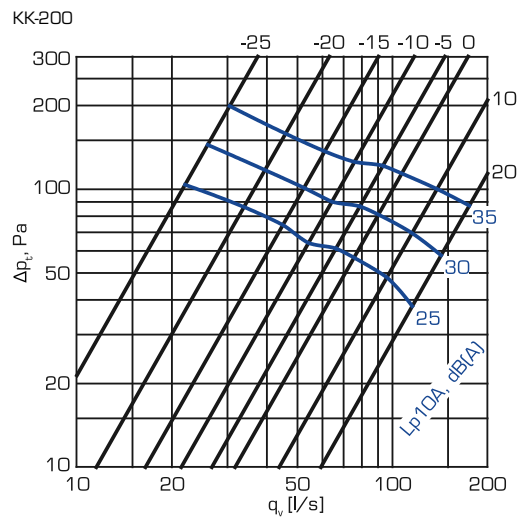
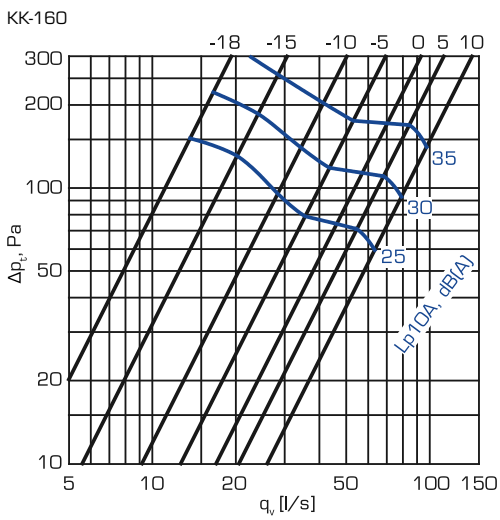
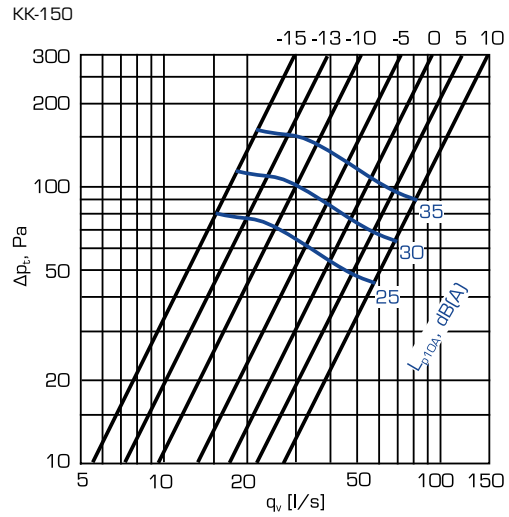
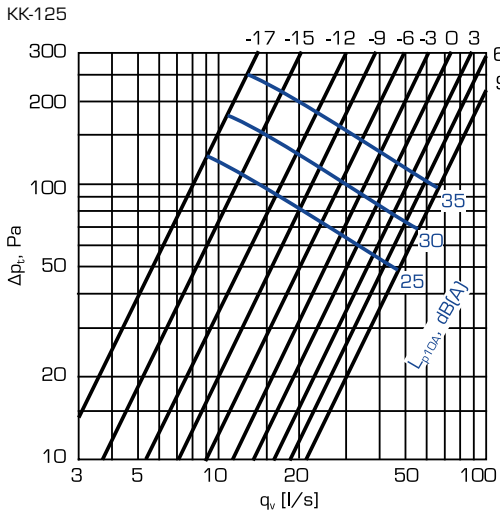
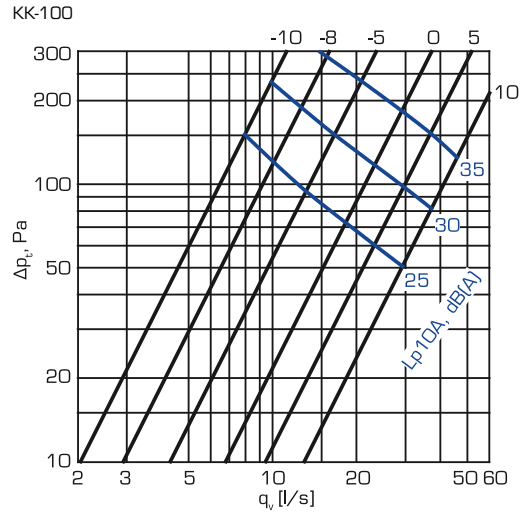
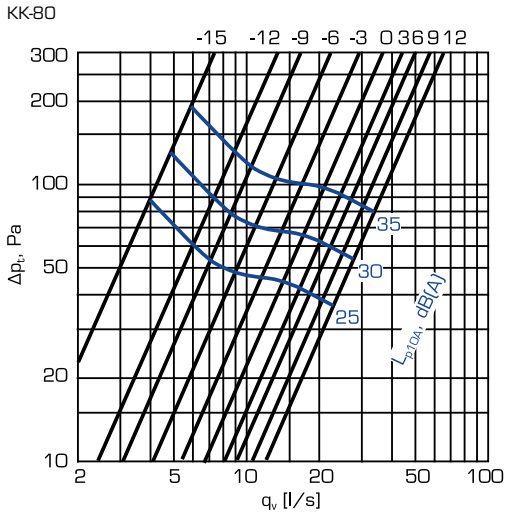
### Product Facts

- KK Exhaust valve intended for installation in the ceiling or on a wall.
- Manufactured from steel sheet.
- Available also in stainless steel.
- Six sizes.

### Product code example

Exhaust valve KK-125

# Air flow, pressure drop, sound level



# Acoustical data, dimensions and weight

## Sound power level L<sub>w</sub>

KK	Correction K <sub>oct</sub> (dB) Octave bands, middle frequency, Hz						
	125	250	500	1000	2000	4000	8000
80	1	-2	1	0	-3	-10	-22
100	5	-2	-3	-3	0	-8	-20
125	-6	0	0	-3	0	-13	-25
150	-6	-5	-4	0	-1	-13	-28
160	1	-1	-3	1	-2	-15	-32
200	3	1	-1	1	-4	-12	-25
Tol	+/-	3	2	2	2	2	3

Sound power levels by octave bands are obtained by adding to total sound pressure level L<sub>p10A</sub>,dB(A) the corrections K<sub>oct</sub> presented in the table according to the following formula:

$$L_{w\text{oct}} = L_{p10A} + K_{\text{oct}}$$

Correction K<sub>oct</sub> is average value in range of use of KK unit.

## Sound attenuation ΔL

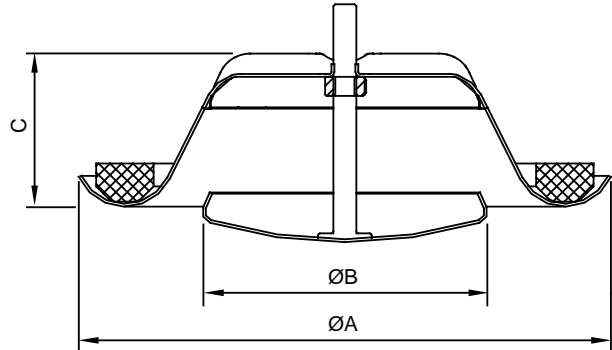
KK	Slot s(mm)	Sound attenuation ΔL (dB) Octave bands, middle frequency, Hz							
		125	250	500	1000	2000	4000	8000	
80	-9	24	20	14	10	8	5	5	6
	0	24	19	13	9	6	3	4	5
	12	24	19	13	9	5	2	3	4
100	-10	23	19	14	12	11	10	13	14
	0	23	16	11	8	7	6	9	8
	10	23	16	11	7	5	4	7	8
125	-17	20	19	13	10	7	7	11	14
	0	18	16	10	6	4	4	5	8
	9	19	16	9	6	3	3	5	7
150	-15	21	14	11	8	6	6	8	8
	0	20	13	9	6	4	4	7	6
	10	16	14	9	4	3	2	7	7
160	-15	18	13	11	7	6	6	8	8
	-10	18	13	10	6	5	5	7	7
	0	17	13	9	5	4	3	6	6
200	-15	17	12	8	7	6	7	8	9
	-5	17	11	7	6	5	6	6	8
	0	17	11	7	5	5	6	6	7
Tol.±	6	3	2	2	2	2	2	3	

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.

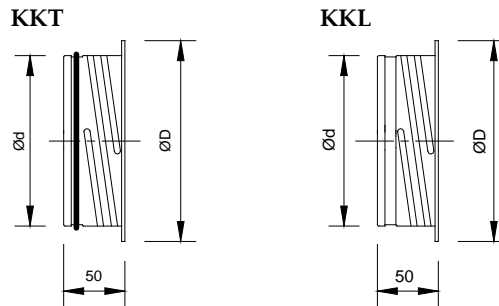
## Definitions

q <sub>v</sub>	air volume	l/s
Δp <sub>t</sub>	total pressure drop	Pa
L <sub>p10A</sub>	sound pressure level with 4 dB room attenuation dB(A) (10 m <sup>2</sup> sab)	
L <sub>woct</sub>	sound power level by octave bands	dB
ΔL	sound attenuation	dB
K <sub>oct</sub>	correction	dB

## Dimensions and weight



Size	A [mm]	B [mm]	C [mm]	Weight [kg]
80	116	60	40	0,15
100	140	75	40	0,16
125	170	99	46	0,23
150	202	119	54	0,34
160	202	119	54	0,34
200	254	157	64	0,51



Size	Pack size	Ød [mm]	ØD [mm]	Weight KKT [g]	Weight KKL [g]
80	60	79	102	66	63
100	56	99	122	75	71
125	36	124	148	102	97
150	24	149	175	123	116
160	25	159	184	131	125
200	12	199	225	165	156

# Construction, installation, product code

## Construction

The KK is manufactured from steel sheet painted white. Other paint finishes are available to special order. Stainless steel version is also available and it is always delivered with a stainless steel version of mounting ring (KKR). Valve body has a gasket made of cellular plastic and the control disc with screw spindle enables easy regulation and positional locking.

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

## Installation

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

## Regulation and measurement of air flow

Regulation of air flow is achieved by turning the control disc to change adjustment dimension s (mm).

The measurement of air flow is made by a pressure difference measurement with a separate measuring tube.

Refer to air flow measurement diagrams found in the separate installation and measurement instructions for information.

## Product code

**Exhaust valve**  
**KK-aaa**

**Exhaust valve with springs**  
**KKJ-aaa**

Size (aaa)  
080, 100, 125, 150, 160, 200

**Following markings are added to the valve code if needed:**

E = special colour  
C = CleanVent coated

For example:  
KK-100-C (KK-100 with CleanVent coating)  
KK-100-E (KK-100 with special colour)

**Exhaust valve, stainless steel**  
**KK-aaa-R**

Size (aaa)  
100, 125, 160

## Accessories:

**Mounting ring with rubber gasket**  
**KKT-aaa**

**Mounting ring without rubber gasket**  
**KKL-aaa**

Size (aaa)  
080, 100, 125, 150, 160, 200

**Mounting ring, stainless steel**  
**KKR-aaa**

Size (aaa)  
100, 125, 160