

## 2.3.2. Air exhaust valve

KK

**Use:**

Air exhaust in low and medium pressure systems, in a non-aggressive environment of relative humidity up to 70%. Recommended for sanitary facilities for exhaust of used air.

**Fitting:**

On rectangular ducts in plenum boxes, in suspended ceilings and in walls. Fitted in an additional galvanized fitting frame.

**Construction:**

Front frame and the disc baffle made of pressed steel sheet elements. Front frame is foam insulated to provide air tight fitting after mounting it with a fitting flange KKK.

**Material:**

Black steel sheet.

**Surface finish:**

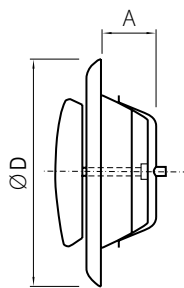
White powder coat RAL 9010, or other colour of coating according to the RAL catalogue.

**Air flow regulation:**

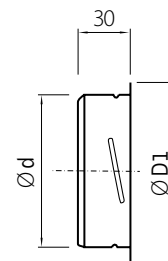
By the means of turning the disc baffle which has a regulating screw welded to the valve. Air flow regulation carried out from the front side without the necessity of dismantling the valve.

**Certificates:**

Hygiene certificate: HK/B/1705/01/2008

**Dimensions and type marking:**

KK/KK-ko



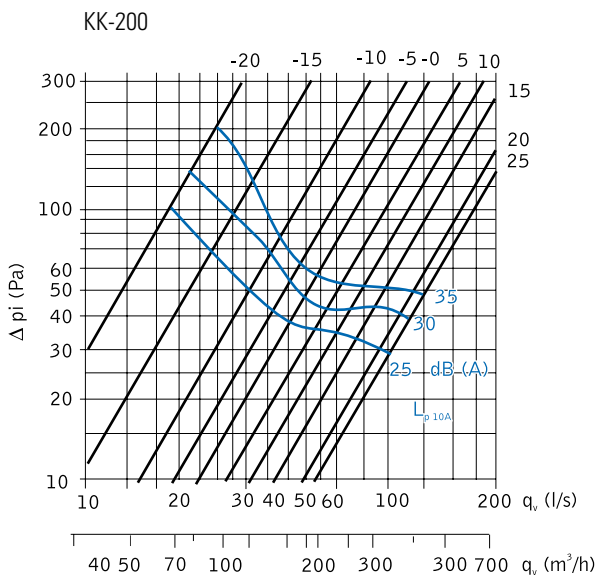
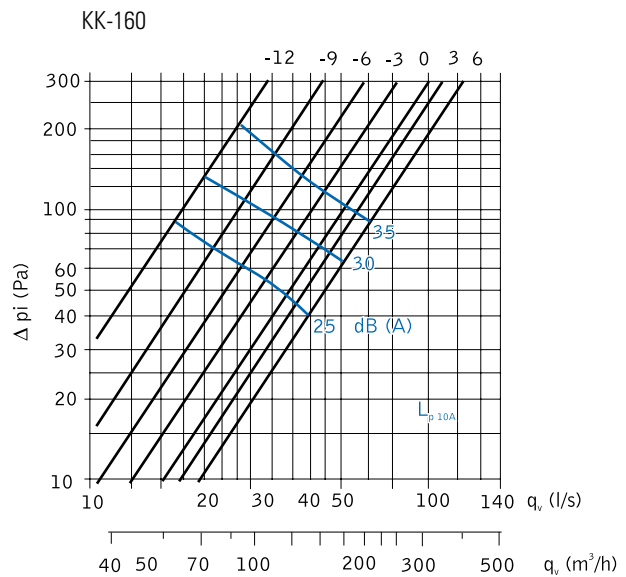
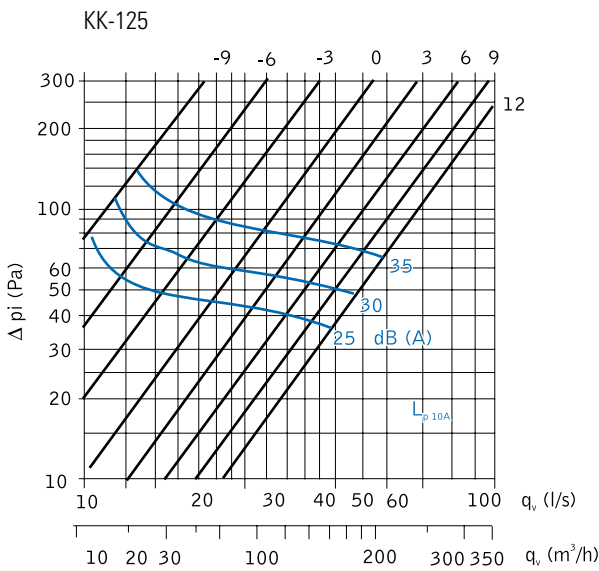
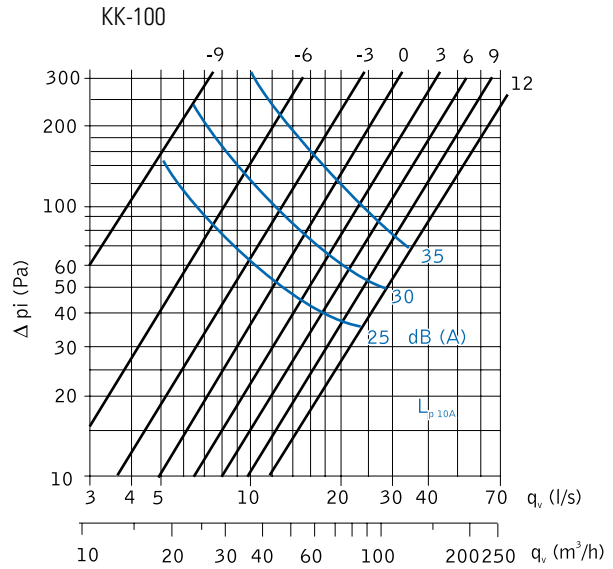
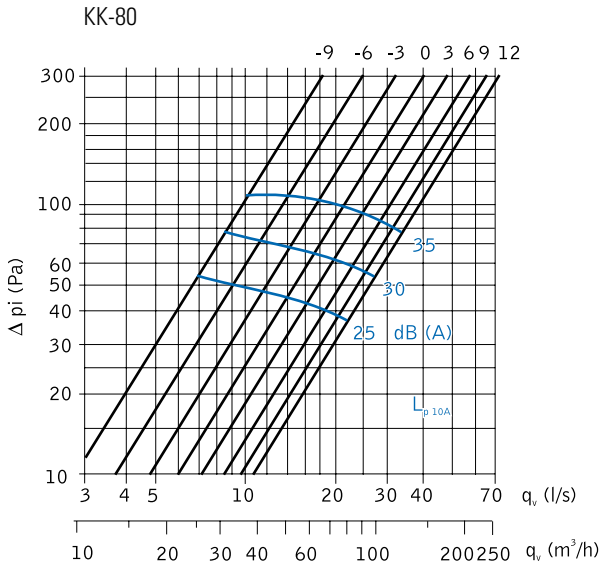
KKK

**Production range:**

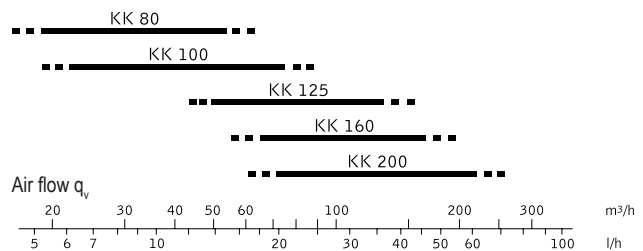
Size	ØD	A	Weight [g]
80	115	31	150
100	137	39	195
125	164	44	310
160	212	52	470
200	248	55	660

Size	Ød	ØD1	Weight [g]
80	79	118	40
100	99	125	50
125	124	155	65
160	159	186	100
200	199	230	140

Diagrams for selection of air exhaust valves KK



Range of use:



## Noise characteristics for air exhaust valves KK

Noise level  $L_w$ 

KE	Correctional coefficient Kocf (dB)						
	Average frequency in octaves (Hz)						
	125	250	500	1000	2000	4000	8000
80	1	-2	1	0	-3	-8	-16
100	-2	-4	-3	0	-1	-15	-30
125	4	3	1	-1	-3	-12	-22
160	-1	0	1	0	-4	-13	-26
200	0	-5	1	2	-13	-28	-32
tol.±	3	2	2	2	2	2	3

tol. – tolerance

We obtain noise level distribution after adding the Kocf correctional coefficient given in the chart to the total acoustic pressure  $L_{p10A}$ , dB(A), according to the below formula

$$L_{wocf} = L_{p10A} + Kocf$$

The value of the correctional coefficient Kocf is the average value of frequency range (Hz).

## Noise silencing

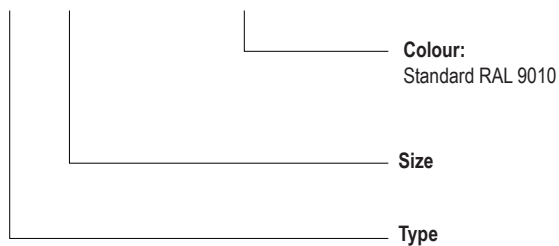
KE	Regulation (mm)	Noise silencing L							
		Average frequency in octaves (Hz)							
		63	125	250	500	1000	2000	4000	8000
80	-9	24	20	14	12	8	5	5	6
	0	24	19	13	9	6	3	4	5
	+12	24	19	13	9	5	2	3	4
100	-6	23	17	13	11	9	9	10	12
	0	23	17	12	9	7	7	7	9
	12	22	16	11	7	5	5	5	7
125	-12	21	15	12	11	8	9	12	11
	-3	20	15	10	8	6	6	6	10
	+6	21	14	9	7	4	4	6	8
160	-15	18	14	12	10	9	9	13	15
	-5	14	13	10	7	6	6	9	10
	15	14	13	8	5	4	4	7	7
200	-20	17	13	11	9	8	10	13	11
	+0	17	11	7	6	5	6	8	6
	+20	17	10	6	4	3	4	8	4
tol.±		6	3	2	2	2	2	2	3

tol. – tolerance

The chart provides the average noise silencing from the duct to the room accounting for the final sound reflection at the connector in case of fitting in a ceiling.

Product marking:

**KK-160-RAL9006**



Example of an order:

KK-160 – Exhaust valve Ø160 with a fitting ring, colour- RAL 9010