

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

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

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

Noise silencing

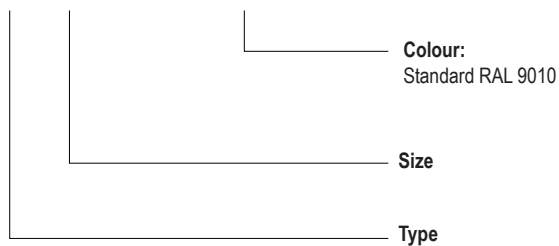
KE	Regulation (mm)	Noise silencing L							
		Average frequency in octaves (Hz)							
		63	125	250	500	1000	2000	4000	8000
80	-9	24	20	14	12	8	5	5	6
	0	24	19	13	9	6	3	4	5
	+12	24	19	13	9	5	2	3	4
100	-6	23	17	13	11	9	9	10	12
	0	23	17	12	9	7	7	7	9
	12	22	16	11	7	5	5	5	7
125	-12	21	15	12	11	8	9	12	11
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