Insulated metal air exhaust valve
KWI

Description

KWI air exhaust valves can be installed in the ceiling, on the wall or directly in the mouth of a ventilation duct using a dedicated RMI mounting frame. They allow smooth adjustment of the air exhaust flow rate by rotating the disk closure in the centre. The air flow rate depends on the opening ratio, i.e. the distance between the disk closure distance and the round bezel, and it is set with a locknut. The carefully designed geometry of the valve guarantees low noise level as well as quick and easy installation.
Depending on the installation needs, the air exhaust valves are available in sets with a mounting frame (product code: KWI-RMI).

Standard colour: white

Available materials — Product code examples
KWI-RMI-... - galvanized steel sheet, powder-coated finish high-gloss RAL 9016

Product code example
Product code: **KWI-RMI - aaa**

type
Ød

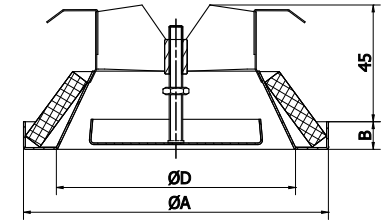
Technical specifications

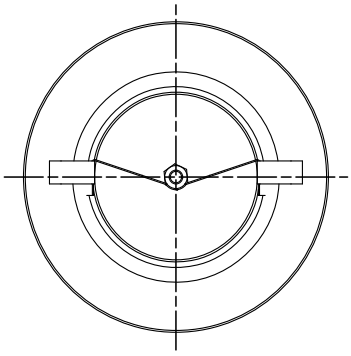
The following performance parameters:
volumetric flow rate, q (l/s or m³/h), total pressure drop, P_t (Pa), and sound pressure level, L_A (dB(A)), can be read from the chart.

Pressure drop, P_t
The charts show the total pressure drop, P_t (Pa).

Sound pressure level, L_A
The charts show the sound pressure level, L_A (dB(A)).
The noise level is shown for the sound insulation level at 4 dB indoors, which corresponds to sound insulation performance in the reverberation zone at the room absorption level for 10 m² according to SABINE's formula.

Dimensions





$ØD_{nom}$ [mm]	ØA [mm]	B [mm]	Weight [kg]
80	108	16	0.1
100	135	16	0.2
125	160	16	0.3
150	195	16	0.5
160	193	16	0.5
200	240	19	0.7

Sound pressure level, L_A (dB(A))

Dimensions [mm]	Mean frequency [Hz]						
	125	250	500	1000	2000	4000	8000
80	-2	-6	-5	1	-1	-5	-14
100	-2	-4	-3	0	-1	-8	-16
125	4	3	1	-1	-3	-12	-22
150	-1	0	1	0	-4	-13	-26
160	-1	0	1	0	-4	-13	-26
200	0	-5	1	2	-13	-28	-32
tolerance	3	2	2	2	2	2	3

Sound insulation level (dB)

Dimensions [mm]	Mean frequency [Hz]							
	63	125	250	500	1000	2000	4000	8000
80	24	18	14	9	7	7	7	9
100	22	16	11	7	5	5	5	7
125	21	14	9	7	4	4	6	8
150	14	13	8	5	4	4	7	7
160	14	13	8	5	4	4	7	7
200	17	10	6	4	3	4	8	4
tolerance	6	3	2	2	2	2	2	3

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Insulated metal air exhaust valve

KWI

Measure

DN	*s [mm]*	*-12*	*-9*	*-6*	*-3*	*0*	*3*	*6*	*9*
KWI-80	k	1,9	1,8	2,2	2,4	2,6	3,1	3,6	3,4
KWI-100	k	1,7	1,9	2,3	2,6	3	3,2	3,5	3,7
KWI-125	k	2,4	2,9	3,6	3,9	4,3	5,2	5,8	6,7
KWI-150	k	2,6	3,3	3,7	4,3	4,9	5,6	6,4	7,6
KWI-160	k	2,8	3,8	3,8	4,7	5,1	6	7,1	9,5
KWI-200	k	3,7	4,8	5,4	6,2	8	8,7	9,9	12,2

$q=k \cdot \sqrt{dp}$

q - air flow rate [l/s].
k - coefficient from the table [-].
dp - value of relative static pressure in the ventilation duct before the diffuser [Pa].
s - front plate position

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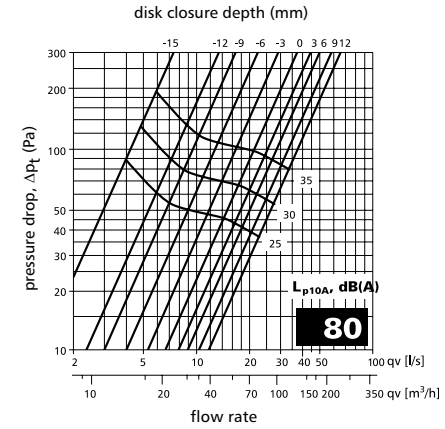
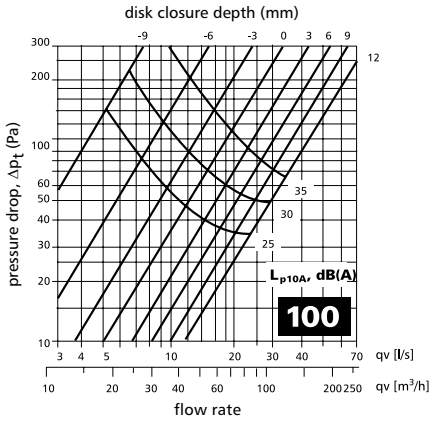
Stainless steel air exhaust valve

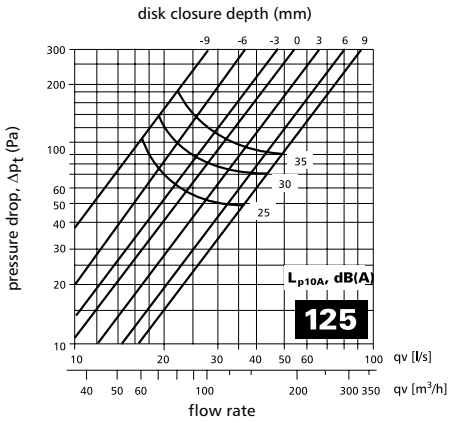
KW-RM, KWI, KW-K-RM

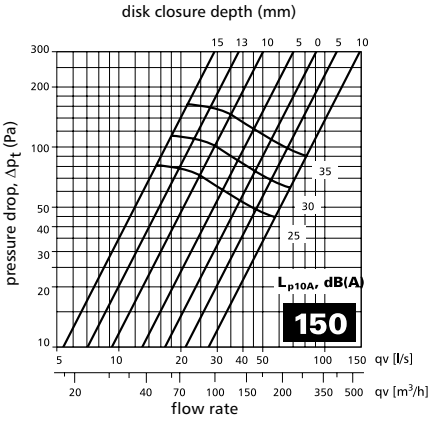
Technical specifications

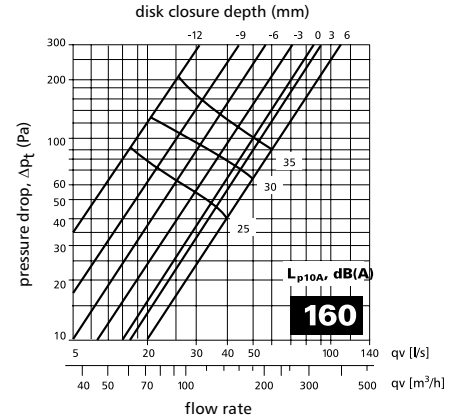
Selection charts

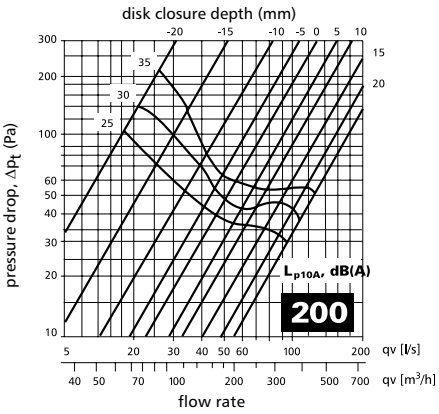


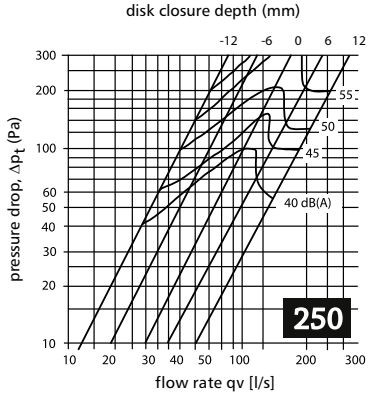












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