



NE is a supply air valve suitable for offices, houses etc.

- ceiling mounting
- good adjusting features
- quick and easy to install
- easy to measure the air flow

ABB Fläkt Oy
Division Lapinleimu



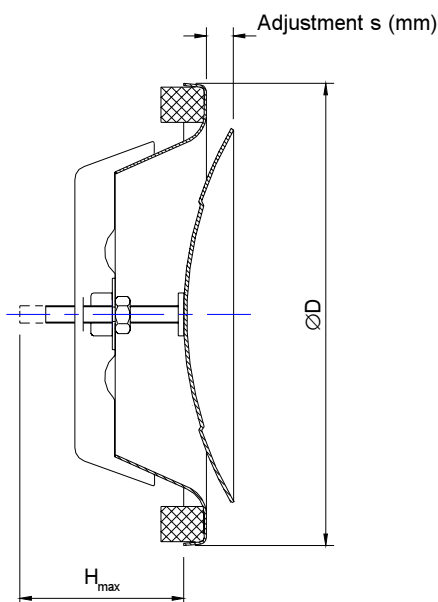
CONSTRUCTION

The NE is manufactured from steel sheet painted white. Other paint finishes are available to special order. Valve body has a gasket made of cellular plastic and the control disc with screw spindle enables easy regulation and positional locking. Mounting rings KKK, KKT and KKL are manufactured from galvanized steel sheet. KKT is equipped with rubber sealing gasket.

INSTALLATION

Mounting ring KKK, KKT or KKL 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.

DIMENSIONS



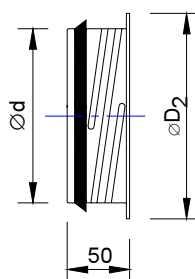
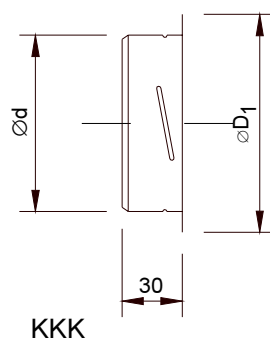
NE	ØD	H _{max}	Weight g
80	115	61	150
100	137	49	190
125	164	71	260
150	202	69	370
160	212	74	405
200	248	77	585

MEASUREMENT AND REGULATION OF AIR FLOW

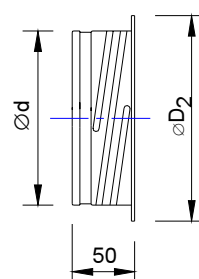
Regulation of air flow is achieved by turning the control disc to change adjustment dimension s (mm). The measurement of air flow is made by a pressure difference measurement with a separate measuring tube. Refer to air flow measurement diagrams for information.

ORDER EXAMPLE

NE - 160
 Product _____
 Size _____



KKT



KKL

Size	Ød	ØD ₁	ØD ₂	KKK Weight g	KKT/KKL Weight g
80	79	-	105	-	80
100	99	127	125	50	100
125	124	155	150	65	120
150	149	176	175	85	180
160	159	186	185	100	190
200	199	230	225	140	240

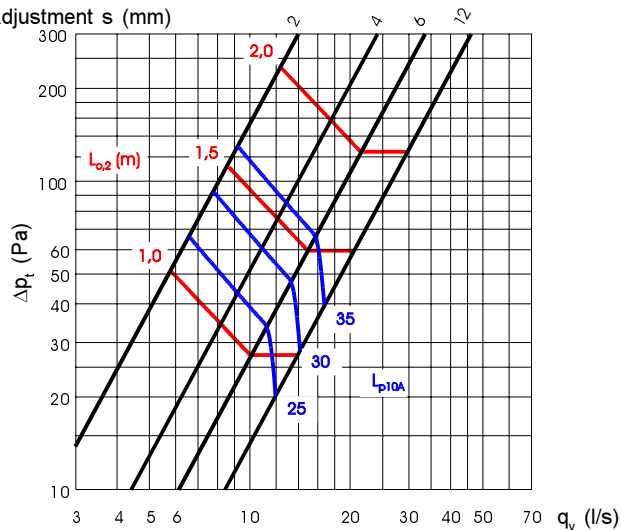
NE Supply air valve



SELECTION DIAGRAM

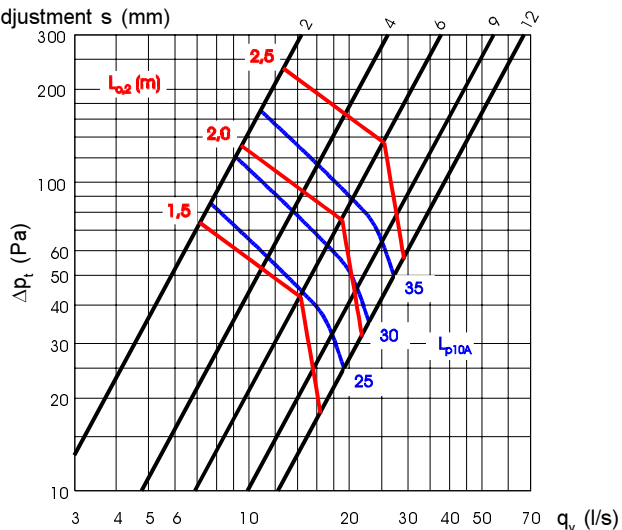
NE-80

Adjustment s (mm)



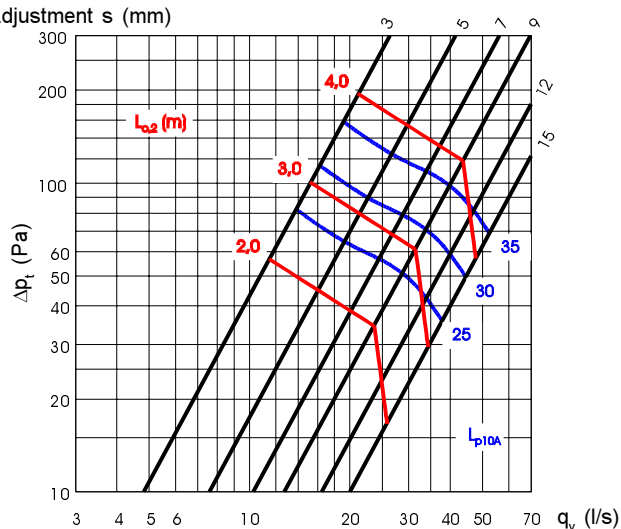
NE-100

Adjustment s (mm)



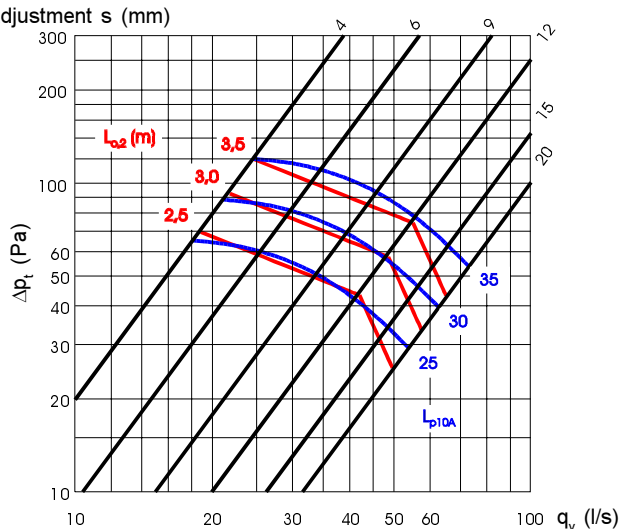
NE-125

Adjustment s (mm)



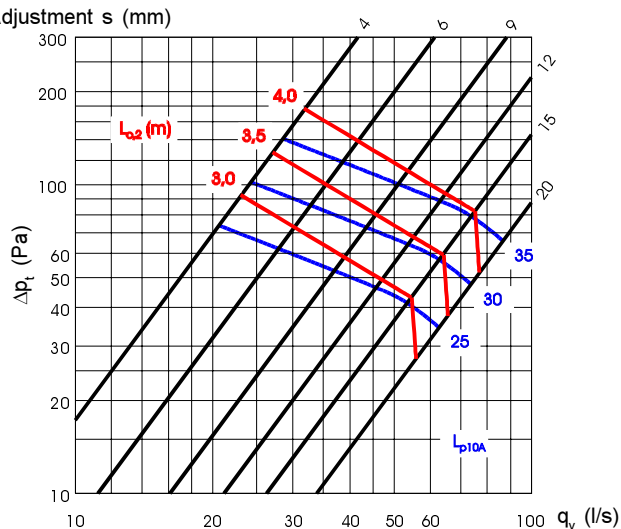
NE-150

Adjustment s (mm)



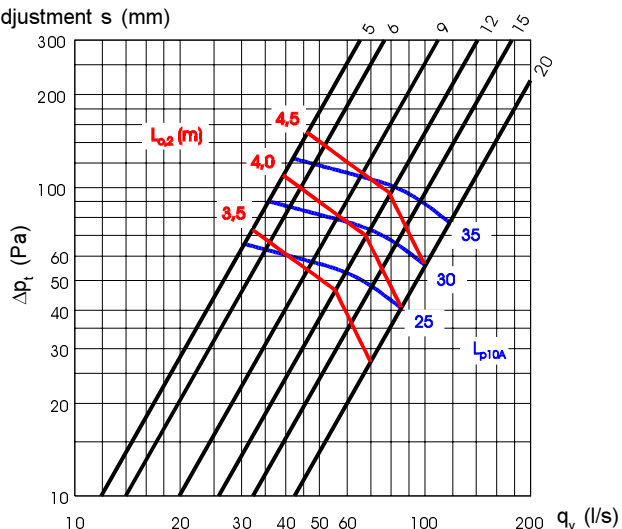
NE-160

Adjustment s (mm)



NE-200

Adjustment s (mm)





NE Supply air valve

SOUND POWER LEVEL L_w

NE	CORRECTION K_{oct} (dB)						
	Middle frequency by octave band (Hz)						
	125	250	500	1000	2000	4000	8000
80	7	6	3	-2	-11	-23	-35
100	6	6	3	-2	-10	-21	-33
125	6	8	2	-3	-10	-21	-33
150	9	9	2	-5	-12	-22	-33
160	10	9	1	-5	-10	-22	-32
200	9	9	2	-4	-12	-20	-32
Toler.±	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 NE unit.

DEFINITIONS

q_v	air volume	(l/s), (m ³ /h)
Δp_t	total pressure drop	(Pa)
L_{p10A}	sound pressure level with 4 dB room attenuation (10 m ² sab)	[dB(A)]
L_{woct}	sound power level by octave bands	(dB)
ΔL	sound attenuation	(dB)
K_{oct}	correction	(dB)

SOUND ATTENUATION ΔL

NE	Adjust- ment (mm)	SOUND ATTENUATION ΔL (dB)							
		Middle frequency by octave band (Hz)							
		63	125	250	500	1000	2000	4000	8000
80	2	26	20	15	14	11	8	10	9
	6	24	19	13	11	8	5	8	6
	12	24	19	13	10	6	4	5	6
100	2	22	19	14	12	11	12	10	12
	6	22	17	11	9	8	9	6	9
	12	22	17	11	8	6	7	4	7
125	3	20	17	12	11	9	9	8	8
	7	19	15	10	8	7	7	5	5
	12	19	15	9	7	5	5	4	4
150	4	19	14	10	9	9	9	7	8
	12	18	13	8	7	6	5	5	5
	20	18	13	8	5	5	4	5	5
160	4	18	14	10	10	10	10	8	8
	9	18	13	9	8	7	7	6	6
	20	18	13	8	7	6	5	5	5
200	5	17	13	10	9	11	10	9	9
	9	16	12	8	8	9	9	8	7
	20	15	11	7	6	7	6	7	6
Toler.±		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.

