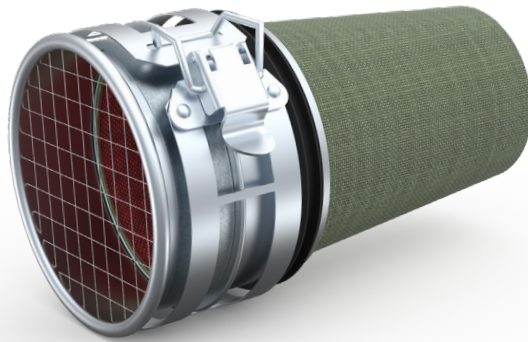


HAGAB®

Drawing name:

BASIC 2 Non-return damper



BASIC 2 non-return dampers prevent fire gases from spreading through the supply air system in supply/exhaust ventilation systems with fans in operation during fire. Suitable for apartments, hotels, hospitals and retirement housing.

Type approved.

Automatic Type approved Cost-effective

THE PRODUCT

BASIC 2 is an automatic non-return damper that activates immediately in case of fire to prevent the spread of fire gases through the supply air ducts in supply/exhaust ventilation systems with fans in operation. Particularly suitable for apartments, hotels, hospitals and retirement housing.

In all other non-burning fire compartments, ventilation continues without exposure to the fire. This means that no uncontrolled pressure variations, which can cause fire gas to spread through leaks in the structure, will occur in the building

Basic can be placed both inside and outside the serviced fire cell. It can be used in the same way also for rooms without windows, for example basements. The product has been tested at RISE, and can handle 2500 Pa pressure, which meets the criteria in BBRAD3.

FIRE TEST

BASIC 2 has undergone a variety of realistic fire tests at the FOI (Swedish Defence Research Agency) test facility in Rosersberg. Using a fire gas damper as a reference, the results of the tests showed that BASIC 2 worked well to prevent fire gas from spreading through the supply air ducts.

LEAKAGE TEST

BASIC has been tested by RISE, Research Institutes of Sweden, according to EN 1751, preassure class 2 and air tightness class B according to AMA QJB/1 in AMA VVS & Kyla 19.

Type approval 0016/05.

NOISE AND PRESSURE DROP TEST

BASIC 2 has been noise and pressure drop tested in a certified sound laboratory.

STRENGTH TEST

BASIC 2 has undergone a product endurance test in which, among other things, the closing function was tested more than 10,000 times with no loss of function.

MATERIAL

BASIC 2 has been reviewed and approved by SP with regard to dangerous substances. The product is recyclable and registered in Byggvarubedömningen (Swedish Building Material Assessment) and SundaHus Miljödata (Healthy Home Material Database).

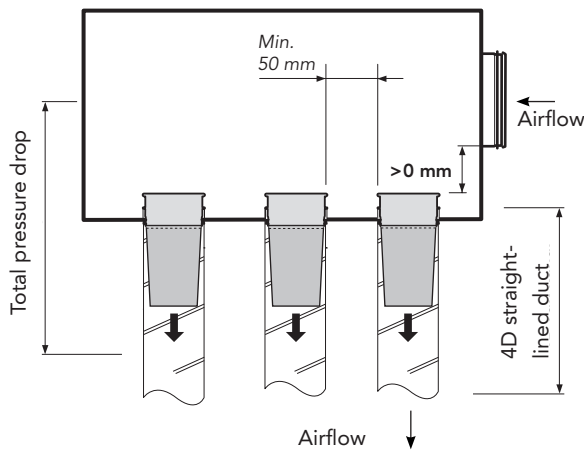


BASIC 2

Non-return damper

SIZING

SIZE 100, 125, 160

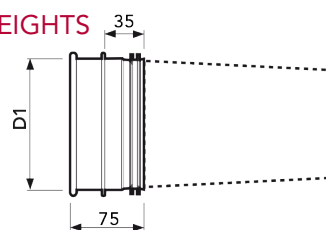


MINIMUM LENGTH STRAIGHT DUCT

There should always be a straight duct in the direction of the air flow with a minimum length of four duct diameters installed after BASIC 2.

DIMENSIONS AND WEIGHTS

Storlek	D1	Vikt Kg
100	105	0.23
125	130	0.28
160	165	0.38



Dimensions in mm.

NOISE DATA

Noise level in duct, L_{wok} , calculated acc. to $L_{wok} = L_{P10A} + K_{ok}$.
 L_{P10A} = noise level in a room with 4 dB attenuation. In K_{ok} room attenuation and end reflection have been considered for each duct size. ▼

K_{ok} OCTAVE BAND HZ

Storlek	63	125	250	500	1k	2k	4k	8k
100	38	28	18	8	0	-8	-10	-10
125	30	18	18	8	0	-12	-17	-16
160	20	22	17	9	-1	-8	-13	-13

EXAMPLE DESCRIPTION

QJC.12 (acc. to AMA VVS & Kyla 19)

SPECIFICATION

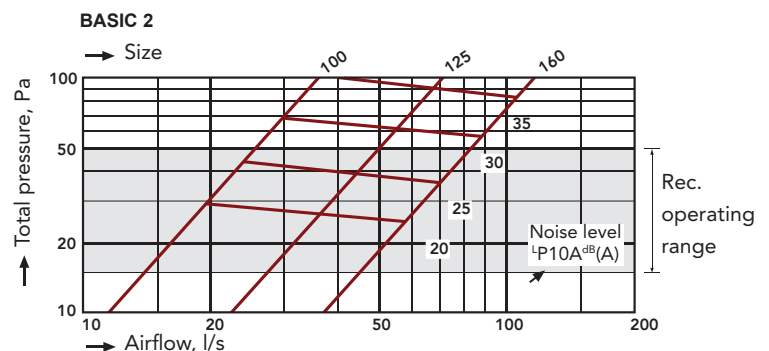
Exampel Non-return damper BASIC-2-160 BASIC-a-bbb
 Design (a) _____
 a = 2 For fitting in distribution box (size 100, 125, 160)
 Size Ø mm (bbb) _____
 bbb = See dimension table (100 - 160)

SOUND ATTENUATION

Sound attenuation, ΔL dB, refers to a reduction of sound power level in the duct. ▼

ΔL DB OCTAVE BAND HZ

Storlek	63	125	250	500	1k	2k	4k	8k
100	1	2	1	2	4	8	10	12
125	1	2	1	1	3	6	7	10
160	0	1	0	0	2	4	5	7



Note. Air flow in the duct outlet must not exceed the speed in any of the distribution ducts. The top edge of the distribution duct must always be below the bottom edge of the connection duct. The revised values are based on measurements with a straight section corresponding to 4 diameters after BASIC has been calculated from the edge of the inlet. A shorter straight section may cause noise and pressure problems.

