

HAGAB®

BASIC 4 Non-return damper



BASIC 4



BASIC 4 (with IRIS)

BASIC 4 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 4 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.

FIRE TEST

BASIC 4 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 4 worked well to prevent fire gas from spreading through the supply air ducts.

Type approval, SP certification 0016/05

LEAKAGE TEST

BASIC 4 has been leakage tested at the SP Technical Research Institute of Sweden in Borås, and by a comfortable margin meets leakage class 2 acc. to AMA VVS & Kyl 16 (Swedish reference material for HVAC&R).

NOISE AND PRESSURE DROP TEST

BASIC 4 has been noise and pressure drop tested in a certified sound laboratory.

STRENGTH TEST

BASIC 4 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 4 has been reviewed and approved by SP with regard to dangerous substances. The product is recyclable and registered in Byggarubedömningen (Swedish Building Material Assessment) and SundaHus Miljödata (Healthy Home Material Database).

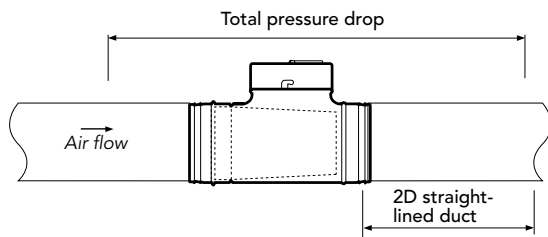


BASIC 4

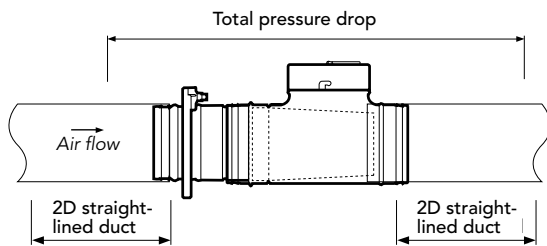
Non-return damper

SIZING

SIZE 100-315



BASIC 4.



BASIC 4 (with IRIS).

EXAMPLE DESCRIPTION

QJC.12 (acc. to AMA VVS & Kyl 16)

Non-return damper, HAGAB type BASIC 4 in size 160.

SPECIFICATION

Example BASIC-4-160-1

Non-return damper BASIC-a-bbb-c

Design (a) _____

a = 4 Compact design (size 100 - 315)

Size Ø mm (bbb) _____

bbb = See dimension table (100 - 315)

Control damper (IRIS) (c) _____

c = 0 Without control damper (supplied unless stated otherwise)

c = 1 With fitted IRIS damper (applies when a = 4)

NOISE DATA

Noise level in duct, $L_{wok,t}$ 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

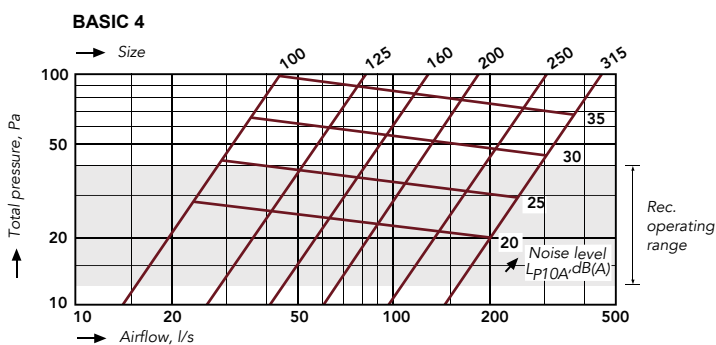
Size	63	125	250	500	1k	2k	4k	8k
100	38	28	18	8	0	-8	-10	-10
125	30	18	18	8	0	-12	-17	-16
160	20	22	17	9	-1	-8	-13	-13
200	20	20	17	10	-1	-10	-15	-11
250	19	18	16	10	-1	-8	-15	-10
315	18	18	15	11	-1	-8	-17	-10

SOUND ATTENUATION

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

ΔL DB OCTAVE BAND HZ

Size	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
200	0	0	0	0	1	2	4	5
250	0	0	0	0	1	1	3	3
315	0	0	0	0	1	1	2	3



Leakage: When exposed to fire, BASIC 4 meets leakage class 2 acc. to AMA VVS & Kyl 16. The product meets leakage class C for the environment.

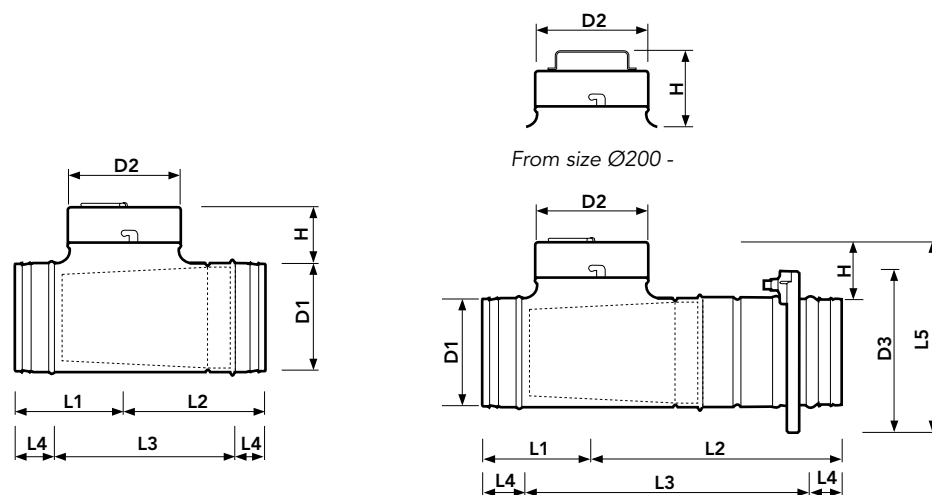


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DIMENSIONS AND WEIGHTS



BASIC 4.

BASIC 4 with IRIS

DIMENSIONS AND WEIGHTS

Size	D1	D2	L1	L2	L3	L4	Weight Kg
100	99	100	103	142	165	40	0.5
125	124	125	122	160	202	40	0.7
160	159	125	122	160	202	40	1.3
200	199	160	162	202	284	40	2.0
250	249	200	208	267	355	60	2.3
315	314	200	235	290	405	60	2.6

BASIC 4 (without IRIS) Dimensions in mm.

Size	D1	D2	D3	L1	L2	L3	L4	L5	Weight Kg
100	99	100	165	103	278	301	40	228	1.2
125	124	125	188	122	294	336	40	251	1.6
160	159	125	230	122	298	340	40	293	2.5
200	199	160	285	162	281	363	40	348	3.7
250	249	200	335	208	486	574	60	398	4.6
315	314	200	410	235	459	574	60	473	5.6

BASIC 4 (with IRIS) Dimensions in mm.

