

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.

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 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).

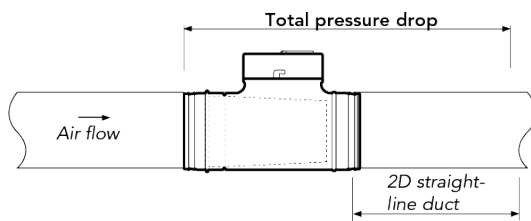


HAGAB®

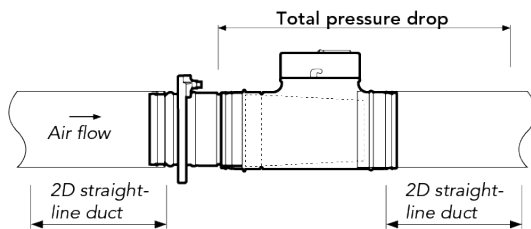
BASIC 4

Non-return damper

SIZING
SIZE 100-315



BASIC 4



BASIC 4 (with IRIS)

EXAMPLE DESCRIPTION

QJC.12 (acc. AMA VVS & Kyl 19)
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 damer (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} , calculated acc. to $L_{wok} = L_{P10A} + K_{ok}$.
 L_{P10A} = noise level in a room with 4 dB attenuation. In L_{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

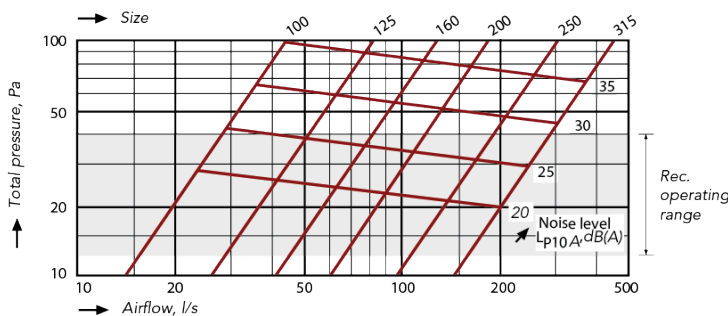
SOUND ATTENUATION

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

BASIC 4



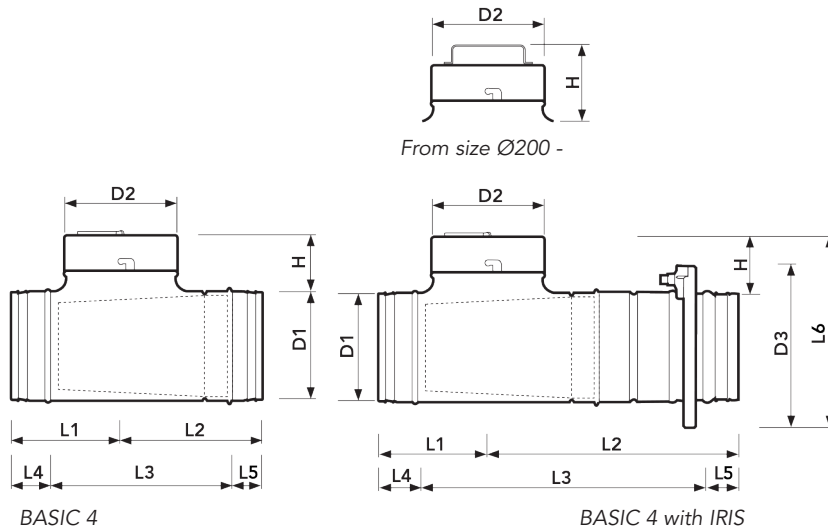
Leakage: When exposed to fire, BASIC 4 meets leakage class 2 acc. to AMA VVS & Kyl 16. The product meets leakage class C for the environment.



BASIC 4

Non-return damper

DIMENSIONS AND WEIGHTS



DIMENSIONS AND WEIGHTS

Storlek	D1	D2	L1	L2	L3	L4	L5	H	Vikt, Kg
100	99	99	105	143	175	35	38	60	0.6
125	124	124	117	159	205	35	36	60	0.8
160	159	159	135	162	225	35	37	60	1.1
200	199	199	155	223	308	35	35	60	1.5
250	249	249	197	273	370	52	48	77	2.4
315	314	314	229.5	315.5	445	52	48	77	3.4

BASIC-4 (without IRIS) Dimensions in mm.

Storlek	D1	D2	D3	L1	L2	L3	L4	L5	L6	H	Vikt, Kg
100	99	99	165	105	275	318	35	27	193	60	1.3
125	124	124	188	117	289	345	35	27	216	60	1.65
160	159	159	230	135	300	373	35	27	254	60	2.3
200	199	199	285	155	343	436	35	27	300	60	3.25
250	249	249	335	197	363	475	52	33	370	75	4.7
315	314	314	405	229.5	407.5	552	52	33	442	77	6.6

BASIC-4 (with IRIS) Dimensions in mm.

