

Shut-off damper - square



Type
HF - AK-E-LD
Hermetic according to
DIN EN 1751, class 4
DIN 1946, part 4



HF - Shut-off damper | square





Advantages

- Tight closing in accordance with DIN EN 1751 class 4 and DIN 1946-4 | airtight shut-off
- Wear-resistant spindle bearing is airtight
- Damper can be adjusted either electrically, pneumatically or manually
- Excellent suitability for chemically contaminated exhaust air

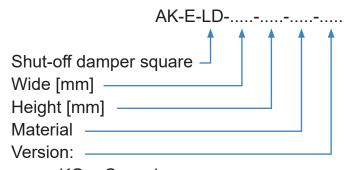
Application

Shut-off, throttling, control of air flows in ventilation systems

Design

- Operating range max. +/- 2.000 Pa at 30 °C
- Nominal sizes from 100 x 200 to 2.450 x 2.015
- Made of PPs as standard, PP / PP-EL-s / PVC / PE and other materials optionally available
- No metal parts in the air flow
- Damper blades in flow-optimized design, rotatably mounted in plastic bushings
- Damper housing on both sides with flange connection
- Manual or actuator operation
- Depending on the operation purpose, an "OPEN/CLOSED" function or a stepless adjustment in the range from 0 ° to 90 ° can be realized

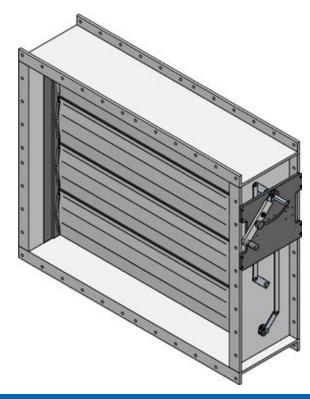
Article code



KO = Console

MB = Motor operation

HB = Manual operation









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Specification

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tight closing in accordance with DIN EN 1751 - class 4 and DIN 1946-4

Manufacturer : **HLU**

Type : **HF-AK-E-LD** - ... - ... - ...

Drive type : Manual operation, electric or pneumatic

Material : Housing : ...

Transmission shafts : Stainless steel
Drive linkage : Stainless steel

Flange version : Thickness 10 mm

Installation length : 300 mm

Number of fields : ..

(For each field a damper actuator is required)

Torque per field : ... Nm

Drive shaft : square 12 x 12, 75 mm long

Actuator : Fabrication : ...

: Type : ...

Construction characteristics:

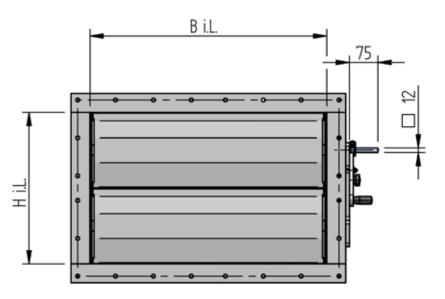
Stable frame versions. Rigid , flow-optimised hollow body lamellas with profile seal. Made of flexible, specific thermoplastic material HF-TSP. The lamellas are controlled by external twist-secured rods in the opposite rotating direction. The shaft bearing is smoothly and wear-resistant in maintenance-free plastic sliding bearings.





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	Dimensions / torques									
		Width B i.L [mm]								
	Height	Quantity	100 to 1200			1201 to 2450			Quantity	
	H i.L [mm]	Blades	100 - 400	401 - 800	801 - 1200	1201 - 1600	1601 - 2000	2001 - 2450	Blades	
				1 Field			2 Field			
	200	1	10 Nm	10 Nm	10 Nm	10 Nm	10 Nm	10 Nm	2	ı
	400	2	10 Nm	10 Nm	10 Nm	10 Nm	10 Nm	10 Nm	4	ı
o o	600	3	10 Nm	10 Nm	20 Nm	10 Nm	20 Nm	20 Nm	6	
Separating plate	800	4	10 Nm	20 Nm	20 Nm	20 Nm	20 Nm	20 Nm	8	
	1000	5	20 Nm	20 Nm	30 Nm	20 Nm	30 Nm	30 Nm	10	
	1200	6	20 Nm	20 Nm	30 Nm	20 Nm	30 Nm	30 Nm	12	
eba	1400	7	20 Nm	30 Nm	40 Nm	30 Nm	40 Nm	40 Nm	14	
ñ	1600	8	20 Nm	30 Nm	40 Nm	30 Nm	40 Nm	40 Nm	16	
			2 Field		4 Field				Ī	
	1815	9	20 Nm	20 Nm	30 Nm	20 Nm	20 Nm	30 Nm	18	ı
	1015	(5/4)	10 Nm	20 Nm	20 Nm	10 Nm	20 Nm	20 Nm	2*(5/4)	ı
	2015	10	20 Nm	20 Nm	30 Nm	20 Nm	20 Nm	30 Nm	10	
	2015	(5/5)	20 Nm	20 Nm	30 Nm	20 Nm	20 Nm	30 Nm	2*(5/5)	
					Divider					

Height or width dimensions > 2450 mm deviating from the grid are available on request. Information for motor / manual operation:

One actuator or manual adjustment device is required for each damper field. (Torques as mentioned in the grid)

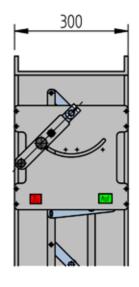
Subject to change of dimensions and construction



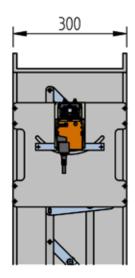


HF - Shut-off damper I square

Manual adjustment device | Actuator

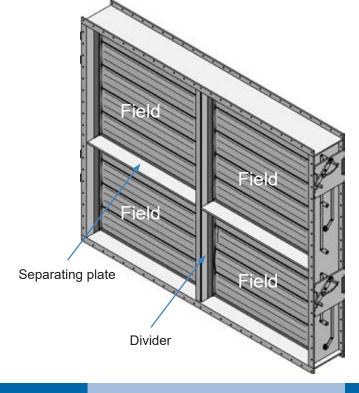


Manual operation



Motor operation

All commercially available actuator types can be supplied according to customer requirements. Belimo actuators are used as standard.





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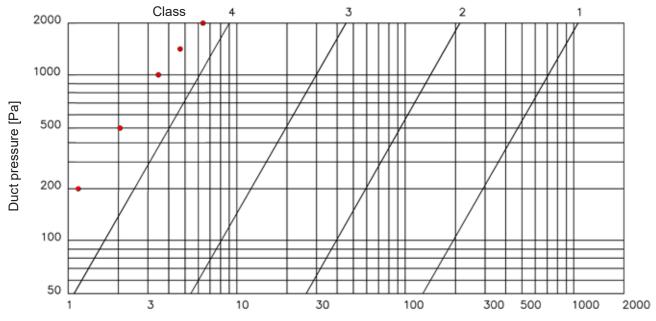
Leakage test shut-off damper

Test report according to DIN EN 1751

Type: shut-off dar	Type: shut-off damper square HF-AK-E-LD-625-400-PPs-HB								
Test pressure	Leakage volume flow	Leakage							
200 Pa	18 l/min	1,2 l / (s x m²)							
500 Pa	32 l/min	2,1 I / (s x m²)							
1000 Pa	52 l/min	3,5 l / (s x m²)							
1500 Pa	70 l/min	4,7 I / (s x m²)							
2000 Pa	81 l/min	5,4 I / (s x m²)							

Test surface: 0,25 m²

Classification of leakage with closed damper blade according to DIN EN 1751



Leakage with closed damper blade 1/(s x m²)

• = Measured values from HLU leakage test

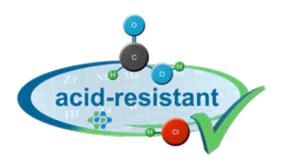


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