

BTK

Approval Z-19.18-2180
EC certificate of conformity
BC1-606-0464-15650.69-2517



In accordance with the European Construction Products Regulation, fire dampers required an EC certificate of conformity and declaration of performance since 01.07.2013. Helios BTK meet these European requirements.

Operation

Shutter to prevent fire and smoke transmission. Suitable for installation in ventilation shafts or walls which serve as fire section with required fire resistance class EI 90 S or K 90-4102. Suitable for wall and ceiling installation or as overflow opening. Suitable for insertion into spiral ducting. In case of one-sided duct connection, mounting sleeve EH (accessories) recommended.

Function

When the ambient temperature of +72 °C is exceeded, the thermal coupling trips. The built-in pressure spring closes the valve automatically.

Official approval

- With EC certificate of conformity and performance declaration according to European Construction Products Regulation 305/2011.
- Test according to EN 1366-2.
- Classified according to EN 13501-3: EI 90 (ve, ho, i→o) S – (300 Pa).
- Corresponds to European Product Standard DIN EN 15650.
- General Technical Approval from German Institute for Building Technology with no. Z-19.18-2180 and Z-41.3-695.

Special features

- Insertion in spiral ducting in space-enclosing component.
- Officially tested fire protection valve with low air noise with high pressure drop.
- High attenuation value.
- Attractive, functional shape.
- Simple adjustment that cannot be changed by unauthorised person reduces the amount of work.
- Can be easily removed only by authorised person for maintenance and cleaning purposes.
- Wide operation range.

Design

Polymer valve body, optimum aerodynamical design with centre core and bell mouth ring. Cylindrical duct sleeve with butterfly shutter and integrated thermal coupling.

Delivery

Individually shrink-wrapped.

Installation and setting

- The installation and operating instructions contain the exact guideline relating to operation and installation.
- The specifications of the respective approval must be observed.

Installation examples

□ Duct installation in wall or ceiling

The element is fixed by inserting into the spiral ducting or the mounting sleeve EH (accessories) and then mounted together to the wall, ceiling or shaft wall. Installation is independent from air flow direction. Completed with connection to ducting on both ends of the mounting sleeve.

□ Overflow opening

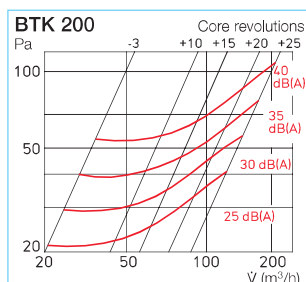
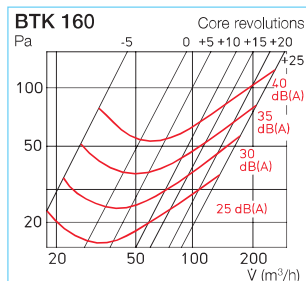
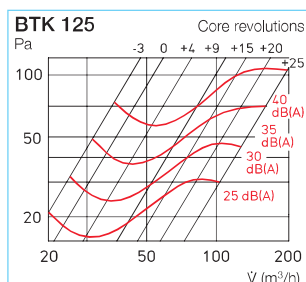
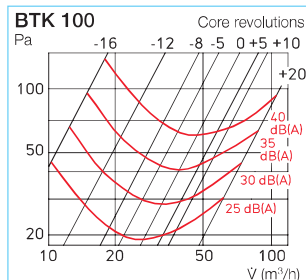
The technical approval Z-19.18-2180 regulates the use as a shutter for overflow openings. Suitable for installation in tube sleeves from spiral ducting or mounting sleeve EH (accessories).

Accessories

Limit switch

To control BTK and report its operating status to the central building management system. For mounting on all DN, simple snap-in mounting.

Type BA-S Ref. no. 2585
Switch as change-over IP 67
max. load 5–250 V / 6 A (2 A ind.)
Connect. cable 50 cm long / 3 x 0.34 mm²
Wiring diagram no. 830



Ordering data

Type	Ref. no.	Dim. in mm					Weight kg	Accessories:						
		Ø A	Ø B	C	D	E		Mount. sleeve	Ref. no.	Ø F	G	H	Ø I	
BTK 100	2633	150	98	19	129	20	0,45	EH 100	2639	100	110	140	98	
BTK 125	2630	165	123	19	129	33	0,60	EH 125	2640	125	110	140	123	
BTK 160	2631	220	158	19	129	51	0,85	EH 160	2641	160	110	140	158	
BTK 200	2632	245	198	19	129	71	1,20	EH 200	2642	200	110	140	198	

