

PKI-C-EI120S-100-ZV

Fire damper cartridge

Item Number: [42607](#)

Description

Fire dampers represent passive fire protection, designed with the help of compartmentalization to prevent the spread of toxic gases, smoke and fire.

All our standard fire dampers are designed and certified in accordance with the test criteria's EIS according to EN 1366-2.

A fire damper together with its installation form an inseparable part of the fire resistivity rating.

PKI-C fire dampers are designed for the installations listed in their Data Sheet. Their installation is described in the User Manual of the fire dampers.

As a standard, all the dampers are supplied in a basic version or with a microswitch, or accessories – cover plates, or with flexible duct coupling.

By default, PKI-C fire dampers are supplied with manual control, optionally with micro switches. In case of fire, the fire damper is closed automatically. The PKI-C damper

closes after the melting of the thermal fuse. After the closing of the damper blade, it is mechanically locked in the closed position and can only be opened manually,

which requires access of the maintenance staff into the duct.

To improve the duct accessibility for fire damper inspection purposes,

we supply a flexible duct coupling as an accessory – labelled as TVK-PKIC in the Ordering Codes section.

The actuating mechanism is activated when the temperature of the air in the duct reaches 72 °C.

Highlights

- Lightweight construction
- Closed state detection
- Performance up to 120 minutes
- Simple insertion
- Installation with valve

Product Types

- PKI-C-EI60S

Circular fire damper with a maximum fire resistivity of 60 minutes and a single body design.

- PKI-C-EI90S

Circular fire damper with a maximum fire resistivity of 90 minutes and a single body design.

- PKI-C-EI120S

Circular fire damper with a maximum fire resistivity of 120 minutes and a single body design.

Design

Fire dampers have casings made from galvanized sheet metal. Blades from non-asbestos insulants and an intumescent seal, that expands in a fire situation.

Activation Types

- ZV

Fire damper with a spring-return release driven by a thermal fuse link set to 72 °C.

- DV1

Fire damper with an activation mechanism ZV + closed indication with an AC/DC 24 V contact switch on one blade.

- DV1-2

Fire damper with an activation mechanism ZV + closed indication with AC/DC 24 V contact switches on both blades.

Material Composition

The product contains galvanized sheet metal, calcium silicate board, graphite fire-proof laminate, polyurethane foam. These are processed in accordance with local regulations. The product contains

no hazardous substances, except for the solder in the thermofuse, which contains a milligram of lead.

Connection of the Electrical Parts



The connection of all electrical parts according to the types of activation mechanisms is described in the fire dampers User Manual (document "UserManual_PKI-C").

List of Accessories

Detailed information about accessories can be found in section accessories fire safety.

- PRC-PKIC-DN: Set of 4 cover boards mandatory for dry installation
- TVKC-PKIC-DN: Flexible duct connection for PKI-C accessibility

The accessories can be ordered along with the fire dampers. "DN" stands for nominal dimension.

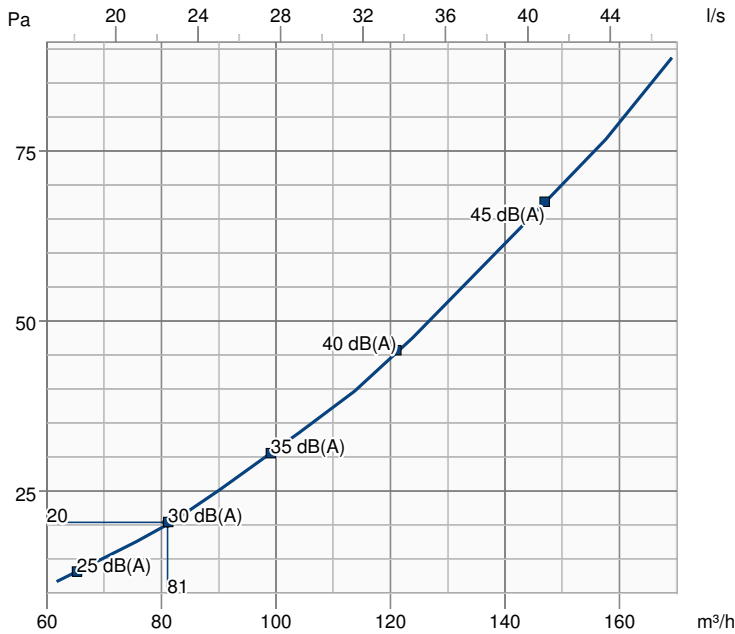
Technical parameters

Dimensions and weights

Weight	0.3 kg
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Performance

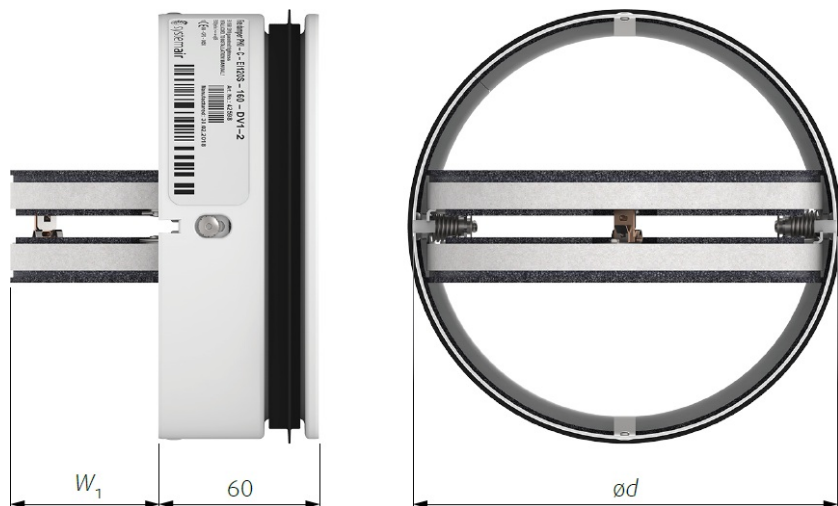
Pressure drop & sound power level (A-weighted) - Total sound power level (A-weighted) - Discharged into room



Parameter	Value
Air flow	81 m³/h
Air face velocity	2.9 m/s
Pressure drop	20 Pa
Total sound power level - Discharged into room	44 dB
Total sound power level (A-weighted) - Discharged into room	30 dB(A)

Total sound power level (A-weighted) - Discharged into room	Hz	63	125	250	500	1k	2k	4k	8k
Lw	dB	44	35	29	25	21	20	21	25
LwA	dB(A)	17	19	20	22	21	21	21	23

Dimensions



Dimensions	Value mm
DN	100
ød	99
W1	27

Part	Weight kg
PKI-C-EI120S-100-ZV	0.30