FDK – A0(A60) Fire damper

Overview

- Type-approved by Bureau Veritas (MED), class A0 – A60 fire damper when suitably insulated
- Blades thermal expansion graphite seals (effective from 150 °C) to increase tightness
- Nominal fuse release temperature 50 °C, 74 °C or 100 °C. Other temperatures available
- Low weight enables easy installation on-site and contributes to saving energy
- Automatic electrical, pneumatic or spring system available

Specification

Halton FDK fire dampers are type-approved class A0(A60) fire dampers that are developed to be used in speed ferries and yachts where saving weight plays an important role. The FDK can be installed in rectangular or circular ducts. All fire dampers have a fusible link and they prevent the spread of fire within the ventilation ductwork. When the blades are in the open position, the device does not cause significant pressure loss, noise or flow disturbance. Fire dampers are set from outside and can be installed in any position. An open-closed indicator is visible on the outside of the damper. Fire dampers with non-standard dimensions can be supplied on request.

Material and Finishing

PART	MATERIAL	FINISHING
Frame	Carbon steel	Painted or galvanized
Frame	Stainless steel EN 1.4404 (AISI 316L)	–
Blades	Steel	Galvanized
Blades	Stainless steel EN 1.4404 (AISI 316L)	–
Maintenance-free bearings	Stainless steel EN 1.4404 (AISI 316L)	–
Shafts	Stainless steel EN 1.4404 (AISI 316L)	–

Product Options

Halton FDK is available with following actuators:

- FDK-EL: Electrical motor; 24V, 230V or 120V. Also explosion-proof models available. Separate junction box included in the EL-model
- FDK-PNR: Pneumatic rotating actuator
- FDK-SP: Manual spring-actuated damper with fusible link
- DOT: manual override function available for PNR and EL models. Ask more information for more actuators and accessories

Operation Principles

In the event of a temperature rise in ductwork:

- FDK-EL: fusible link releases and cuts off operating voltage to the spring return motor, allowing the spring to close the damper blades. The fire damper opens automatically when the fuse has been changed and the operating voltage to the motor is re-established.
- FDK-PNR: fusible link releases and cuts off operating pressure to the spring return actuator, allowing springs to close the damper blades. The fire damper opens automatically when the fuse has been changed and the pneumatic air supply is re-established.
- FDK-SP: fusible link releases allowing the spring to close the damper blades. When the fuse has been changed, the fire damper must be reset into open position manually.