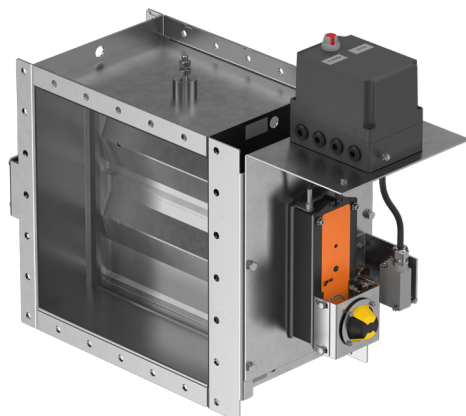


CFD-01 E120 S FIRE & SMOKE DAMPER

For heavy industry ventilation systems



OVERVIEW

The CFD-01 E120S Fire & Smoke Damper is used in ventilation systems to prevent the spread of fire and smoke between designated divisions. Under normal operation, Fire Dampers will remain in the open position allowing for the ventilation of the associated areas. By definition, Fire Dampers must fail-safe closed to protect the rating of the fire division. This is typically achieved using a spring return system ensuring the damper closes even on loss of power.

KEY FEATURES

Casing

The damper casing is formed from 3.0 mm thick sheet steel into a rigid channel section to ensure proper alignment of blades and shafts. The CFD-01 is available as a single unit. The minimum size is 150mm x 150mm and the maximum size is 1000mm x 1000mm, with an insertion length of 300mm. Where circular dampers or dampers with width or height dimensions less than 150 mm are required, additional spigot adaptors are used.

Blades

The blades are a formed double-skin aerofoil section of 1.5 mm sheet metal and operate with an opposed linkage. Blade stops at the top and bottom of the casing, ambient blade seals and sprung side seals provide excellent low leakage characteristics.

Seals

- Shaft Seals – EPDM, Nitrile or Viton (depending on application)
- Blade Seals – Intumescent and Silicone

MATERIALS

PART	MATERIAL	FINISHING
Case	Stainless steel 1.4404 (316L)	-
Blades	Stainless steel 1.4404 (316L)	-
Shafts	Stainless steel 1.4404 (316L)	-
Bearings	Phosphor bronze self-lubricated plain 'Oilite'	-

TECHNICAL SPECIFICATION

- Fire tested to BS EN 1366-2 and certified to BS EN 15650, achieving a fire resistance classification of E120 (ve-ho i-o) S in accordance with BS EN 13501-3
- Closed blade smoke leakage rate of 200m³/h/m² at 300 Pa in accordance with BS EN 1366-2 at 200°C
- Closed blade leakage Class 3 in accordance with EN 1751:2014 at ambient temperature
- Case leakage Class C in accordance with EN 1751:2014 at ambient temperature
- Vertical installation, wall mounted via a wall sleeve
- Horizontal installation, floor mounted via a floor sleeve
- Electrically actuated, using single phase electrical power, typically 24 V DC or 230 V AC.
- Frangible bulb trigger, which provides automatic closure in the event of a fire
- SIL 2 rated in accordance with IEC 61508-2:2010

INSTALLATION

Dampers are typically provided with integral drilled flanges that allow for bolting to ductwork, structural divisions, wall sleeves and similar. Flanges and drillings can be to Halton standard or customer specification.

Installation and maintenance instructions can be provided with each damper delivery.