

Description

The type CFD-01 Fire and Smoke Dampers are utilized in ventilation systems to prevent the passing and spread of fire and smoke between designated divisions. The Flamgard Calidair Fire Damper is designed for bolting or welding to steel bulkheads & decks, building into walls or floors. The damper has been successfully tested to global international standards highlighted below.

Flamgard Calidair have been manufacturing high integrity Dampers combined for over 60 years in the global Petrochemical Oil & Gas, Marine, Nuclear, Tunnel & Metro and Power Generation market sectors.

Specification

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. Damper Units in excess of 3100mm width or height shall be manufactured as a multiple assembly. Where circular dampers or dampers with width or height dimensions less than 150 mm are required, additional spigot adaptors are used which increase the damper insertion length from 300 to 400 mm.

Blades

The blades are a formed double-skin aerofoil section of 1.5 mm sheet metal which operate on the 'Firelock' principle creating a 3-pass labyrinth between the blades which fire cannot penetrate. Blade stops at the top and bottom of the casing and sprung side seals provide excellent low leakage characteristics. Dependent on market sector or required certification of the Damper additional patented sealing and blade materials are utilized.

Shafts

Continuous \varnothing 19.05 mm with blades plug welded at each end.

Linkage

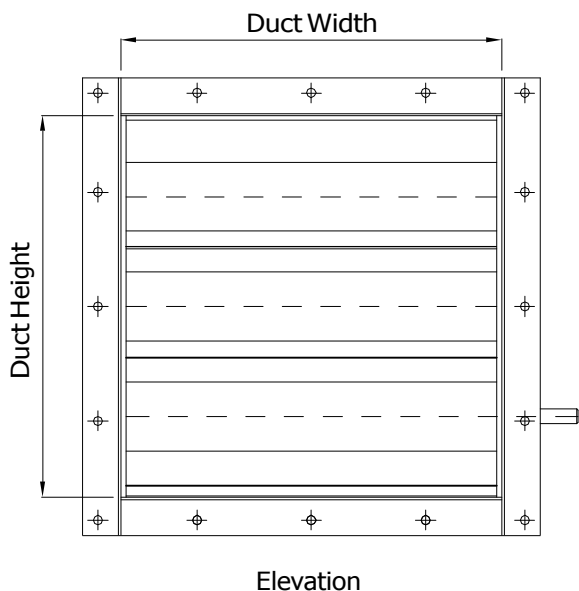
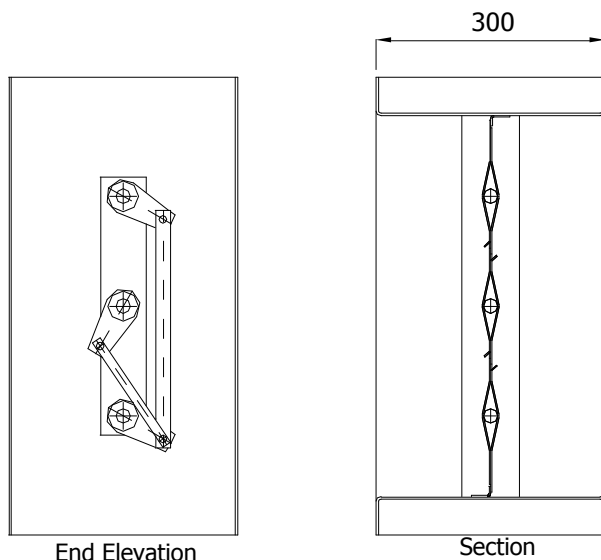
Opposed action linkage consisting of drive levers and bosses connected by flat link bars, driven through stainless steel pins. All linkage is contained within the depth of the damper casing.

Bearings

Phosphor bronze self lubricated 'Oilite' flanged bushes.

Operation

Manual Reset Mechanism, Pneumatic Actuator, Electric Actuator, Solenoid Release. Other control options are available upon request.



Options

- Materials can be stainless steel, galvanized mild steel or other materials to suit the clients' specific requirements.
- Earth continuity bosses.
- Lifting lugs.
- Integral or removable enclosures for housing control equipment.
- High temperature bearings.
- Shaft seals to provide airtight casings
- Other variations to suit clients' specific requirements are also available.

Fire & Smoke Damper

Type CFD-01

Global Certification

Note:

Larger dampers can be constructed by joining multiple assemblies together.

An approved fire-resistant sealant should be inserted between the damper and duct to ensure a good seal.

Note:

Each section shall have a drive spindle which can be linked together externally or driven independently.



General Certification and Standards

- Certified IMO Annex FTP 1, Part 3 certified by Lloyds Register of Shipping, DNV, ABS & BV.
- Type tested/approved and compliant to EN1366-2 Fire Resistant to E (Integrity) S (Smoke) and I (Insulation) from 30 to 120 minutes. (Patents Pending)
- BS 15650 accredited.
- Type tested/Approved BS476.
- Type tested/approved GOST R 55301-2009. (Patents Pending)
- NORSOK case and blade leakage compliant.
- Case and Blade leakage compliant to EN 1751.
- Independent SIL2 Certified.
- ATEX Compliant.
- ISO 9001-2008 accredited
- Independent BISRIA Pressure drop tested.
- Independent SRL Noise Tested.
- Independent Seismic and Blast tested.



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