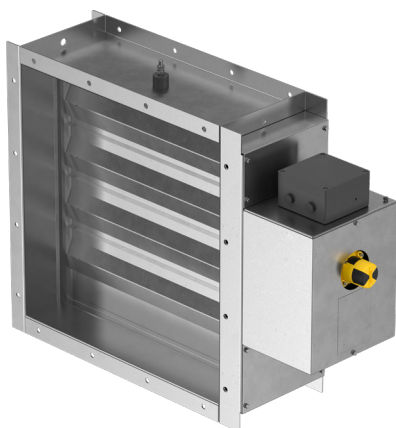


CFD-01 IMO A CLASS FIRE DAMPER

For offshore, marine and navy ventilation systems



OVERVIEW

The CFD-01 IMO A Class Fire Damper is engineered to provide reliable fire compartmentation within marine and offshore ventilation systems. Designed for installation in fire-rated bulkheads and decks, the damper helps maintain the integrity of A Class divisions while permitting unrestricted airflow during normal operation. Upon activation, the damper closes to restrict the passage of fire and hot gases through the ductwork, supporting the overall fire protection strategy of the vessel or platform. Its robust design and proven operational reliability make the CFD-01 well suited to demanding offshore, marine, and naval applications.

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 available sizes range from 150mm x 150mm to 1000mm x 1000mm, and up to 2050mm x 2050mm with the addition of a mullion and transom. Multiple unit assemblies are possible to support restrictive installation environments up to a maximum total size of 2050mm x 2050mm. The insertion length is 300mm.

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 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 1.4307 (304L)	-
	Stainless steel 1.4404 (316L)	-
Blades	Stainless steel 1.4307 (304L)	-
	Stainless steel 1.4404 (316L)	-
Shafts	Stainless steel 1.4307 (304L)	-
	Stainless steel 1.4404 (316L)	-
Bearings	Phosphor bronze self-lubricated plain 'Oilite'	-

TECHNICAL SPECIFICATION

- Certified IMO Annex FTP 1, Part 3 certified by Lloyds Register of Shipping, DNV, ABS and BV
- Type tested & approved for A0-A60
- Certified compliant with the Marine Equipment Directive (MED) 2014/90/EU, Module B
- Approved for use on vessels and offshore installations subject to SOLAS requirements
- Installation on bulkhead or deck
- 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
- Pneumatically or electrically actuated, using single phase electrical power, typically 24 V DC or 230 V AC.
- Frangible bulb trigger option, which provides automatic closure in the event of a fire
- Thermo-electric probe trigger option which provides automatic closure in the event of a fire
- SIL 2 rated in accordance with IEC 61508-2:2010

- Damper certified to ATEX Directive 2014/34/EU. Any fitted actuators, switches, junction boxes or accessories must be separately ATEX-certified for the required hazardous area

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 are provided with each damper delivery.