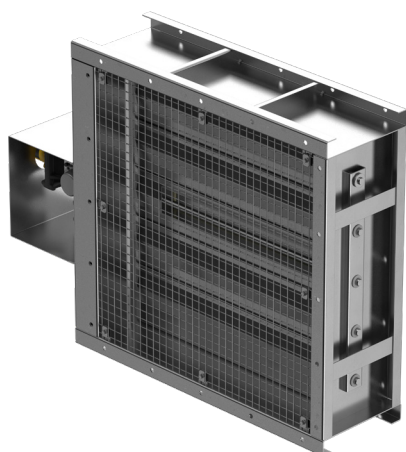


CRD-01 GAS RETENTION DAMPER

For heavy industry ventilation systems



OVERVIEW

The CRD-01 Gas Retention Damper is designed to provide reliable retention of extinguishing agents in demanding industrial environments where robust construction and dependable operation are essential. It is intended for applications requiring the containment of inert gas following system discharge, helping to maintain effective protection during high temperature events. Suitable for both manual and automatic operation, the durable design ensures consistent performance and long service life. The damper may be installed in any orientation, with airflow in either direction, offering flexibility for a wide range of ductwork configurations.

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 CRD-01 is available as a single unit, maximum size 1275mm x 1800mm, or as a multiple unit assembly, maximum size 3925mm x 3650mm. The insertion length is 300mm. Where circular dampers are required, additional spigot adaptors are used.

Blades

The blades are a formed double-skin aerofoil section of 1.5 mm sheet metal with stainless steel edge seals and operate with a parallel linkage. Blade stops at the top and bottom of the casing and sprung side seals provide excellent low leakage characteristics.

MATERIALS

PART	MATERIAL	FINISHING
Case	Mild steel	Galvanised
Case	Stainless steel 1.4307 (304L)	-
Blades	Mild steel	Galvanised
Blades	Stainless steel 1.4307 (304L)	-
Shafts	Stainless steel 1.4307 (304L)	-
Bearings	Phosphor bronze self-lubricated plain 'Oilite'	-

TECHNICAL SPECIFICATION

- Low leakage
- Dampers may be installed vertically & horizontally installation and can be duct mounted, floor mounted, roof mounted, or bulkhead mounted depending upon the application
- Bi-directional operation
- Minimal pressure drop
- 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
- Dampers can be supplied with either; pneumatic actuator, electric actuator or manual hand locking quadrant
- Option for mesh screen to prevent ingress of foreign bodies into the ductwork

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.