

CBD-02 NON-RETURN DAMPER

For heavy industry ventilation systems



OVERVIEW

The CBD-02 Non-Return Damper is specifically designed to provide maximum shut off performance under back flow conditions, preventing reverse air movement when system pressure is lost or reversed. It permits airflow in one direction only, ensuring reliable protection of ventilation systems in demanding operating environments. The robust design delivers dependable sealing and consistent operation over a long service life. The damper may be installed vertically or horizontally, with airflow in the upward direction, allowing flexibility to suit a wide range of ductwork arrangements.

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 CBD-02 is available as a single unit, maximum size 1200mm x 2500mm, or as a multiple unit assembly, maximum size 2450mm x 2500mm. The insertion length is 350mm. Where circular dampers are required, additional spigot adaptors are used.

Blades

The blades are a formed single skin of 1.5 mm sheet steel and operate with a parallel linkage. They seal against a flame-retardant PVC strip attached to the blades and top and bottom stops.

MATERIALS

PART	MATERIAL	FINISHING
Case	Mild steel	Galvanised
Case	Stainless steel 1.4307 (304L) Stainless steel 1.4404 (316L)	-
Blades	Mild steel	Galvanised
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

- Low leakage
- Closed blade leakage Class 3 and case leakage Class C in accordance with EN 1751:2014 available on request
- 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
- Minimal pressure drop
- Vertical & horizontal installation
- Optional weighted adjustment unit

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.