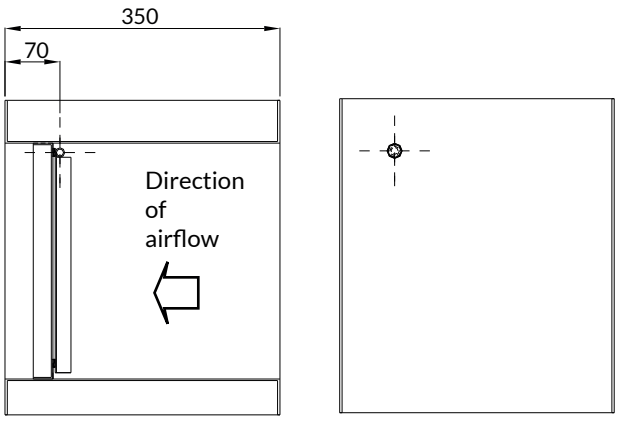
Single Blade Isolating Damper
CID-02

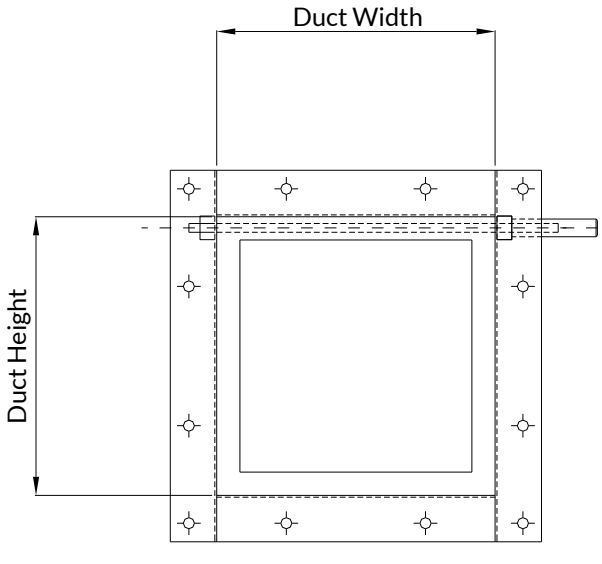
Description

The type CID-02 Isolation Damper has been designed to give maximum efficiency under arduous conditions and is suitable for fitting with the air flow in one direction only. The dampers may be installed vertically or horizontally. This damper will give 100% shut-off when airflow aids closure of blade.



Section

End Elevation



Elevation

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. Where circular dampers are required, additional spigot adaptors are used which increase the damper insertion length from 350 to 450 mm.

Maximum duct size is:
600 mm Wide x 300 mm High

Blades

The blade is a formed single-skin of 2.0 mm sheet steel and seals against a flame retardant PVC strip attached to the blades and top and bottom stops.

Shafts

Continuous shafts Ø 19.05 mm.

Bearings

Phosphor bronze self lubricated 'Oilite' bushes with lipseals to eliminate casing leakage.

Operation

Pneumatic Actuator, Electric Actuator, Hand Locking Quadrant.

Options

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

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Installation & Assembly

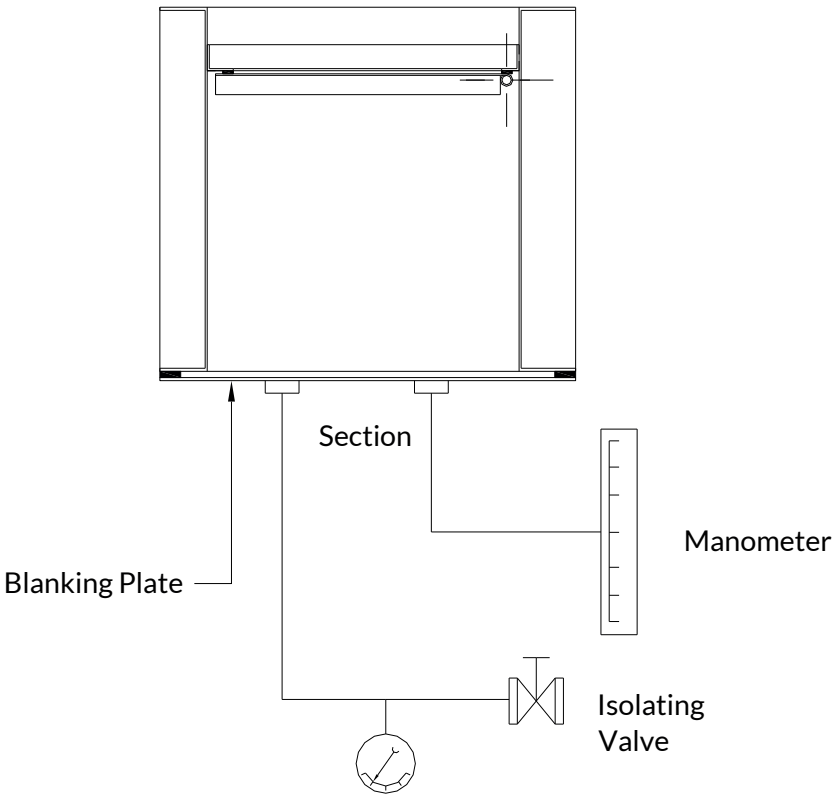
Leakage:
Each damper is tested to ensure there is 100% sealing through the blades and casing - as follows:

Test Procedure:
Each compete damper assembly is subjected to a works pressure test of 5000 /m² for 10 minutes. The upstream end of the damper is sealed during the test and the pressurizing source removed. After 10 minutes the pressure is checked to ensure that it has not dropped.

Open Pressure Drop Characteristics

The design of this damper is virtually free of obstructions making the pressure drop over the damper so small there are no instruments capable of measuring the value.

If 100% free area is required, simply increase the duct size by 20 mm width and height to eliminate the area occupied by the blade sealing stops. The damper flanges can be adjusted to accommodate the difference.



Test Arrangement

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