

Type ARK2



FOR THE PREVENTION OF EXCESS PRESSURE IN ROOMS

Pressure relief dampers for gas fire extinguishing systems and transformer substations

- Air leakage with back pressure to EN 1751, class 4
- Maximum differential pressure: 5000 Pa
- Differential pressure can be adjusted from 50 – 1000 Pa (B > 600 mm: 600 Pa max.)
- Blades made of aluminium, casing made of galvanised steel
- Blades open when the maximum differential pressure is exceeded and close automatically when the pressure drops
- Blade locking with permanent magnet
- Robust, maintenance-free construction
- Available in standard sizes and many intermediate sizes
- Operating temperature 0 to 80 °C

Optional equipment and accessories

- Installation subframe
- Powder coating (RAL or DB)
- Stainless steel construction with stainless steel casing; blades made of aluminium



Application

- Pressure relief dampers of Type ARK2 for the protection of internal spaces from differential pressures in excess of set maximum levels
- When the set maximum differential pressure is exceeded, the blades automatically open to relieve the excess pressure
- Pressure peaks will be reliably controlled
- Differential pressure can be adjusted from 50 – 1000 Pa (B > 600 mm: 600 Pa max.)

Special characteristics

- Robust, maintenance-free construction
- Maximum differential pressure: 5000 Pa
- Air leakage with back pressure, in closing direction, to EN 1751, class 4
- Damper for negative or positive pressure (air extract or discharge)
- Operating temperature 0 to 80 °C
- Maintenance-free DU bearings with Teflon coating, bearing shafts made of stainless steel
- Each blade is locked with a factory set permanent magnet
- Adjustable differential pressure for blade opening: 50 – 1000 Pa, depending on width

Nominal sizes

- B: 200, 400, 600, 800, 1000, 1200 mm (intermediate sizes: 201 – 1199 mm, in increments of 1 mm)
- H: 345, 675, 1005, 1335, 1665, 1995 mm (intermediate sizes 355 – 505, 685 – 835, 1015 – 1165, 1345 – 1495, 1675 – 1825 mm in increments of 1 mm)
- Any combination of B × H

Construction

- Galvanised sheet steel, duct connection without flange holes
- A2: Stainless steel
- G: Duct connection with flange holes

Parts and characteristics

- Ready-to-install pressure relief damper
- Blades with low-friction bearings
- One retaining element with a permanent magnet for each blade
- Seal
- Travel stop (angle section)

Construction features

- Rectangular casing, material thickness 2 mm
- Blades, material thickness 3 mm
- Flanges on both sides, suitable for duct connection, with or without flange holes
- Adjustable retaining element to adapt to different pressures (factory set as ordered)
- Blades can be moved independent of complementary to one another
- Blades with perimeter seal, pressed against travel stop (angle section) when closed
- Blade shafts with maintenance-free metal-polymer bearings

Materials and surfaces

- Casing and travel stop (angle section) made of galvanised sheet steel, material no. EN 10327-DX51D+Z150-200-NAC
- A2 construction: Casing and travel stop (angle section) made of stainless steel, material no. 1.4301
- Blades made of aluminium, material no. AlMg3
- Blade holders made of stainless steel, material no. 1.4301
- Blade shafts made of stainless steel, material no. 1.4104
- Plate of the retaining element made of steel, material no. 1.0718
- Blade bearings made of metal-polymer composite, with an antifriction lining of PTEE/Pb
- Neoprene seals
- P1: Powder-coated, RAL CLASSIC colour
- PS: Powder-coated, DB colour

Standards and guidelines

- Closed blade air leakage (against the intended airflow direction) to EN 1751, class 4
- Casing air leakage to EN 1751, class C

Maintenance

- Maintenance-free as construction and materials are not subject to wear
- Contamination should be removed as it may lead to corrosion and to increased closed blade air leakage

TECHNICAL INFORMATION

Function, Technical data, Quick sizing, Specification text, Order code, Related products

Dimensions and weight, Product details

Installation details, Basic information and nomenclature

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