The art of handling air

Type KUL

FOR INSTALLATION INTO DUCTWORK

Non-return dampers prevent unwanted airflows against the intended airflow direction when the system is not in operation

- Maximum pressure of 100 Pa
- Casing with U-channel connection suitable for rectangular ducts
- Available in standard sizes and many intermediate sizes
- Non-return damper with formed aluminium blades for normal requirements; blades are fitted with seals for sound attenuation

Optional equipment and accessories

- Installation subframe
- Powder coating (RAL, NCS or DB)

Application

- Non-return dampers of Type KUL for the fresh air and exhaust air ducts of air conditioning systems
- Prevention of unwanted airflows against the intended airflow direction when the system is not in operation
- Blades close automatically when the system is shut down
- Maximum total differential pressure: 100 Pa

Special characteristics

- Any intermediate sizes within the standard size range are available
- Temperature resistant up to 80 °C
- Maximum pressure of 100 Pa
- Non-return dampers are opened and closed by the airflow; no actuator is required
- Non-return damper with formed aluminium blades for normal requirements; blades are fitted with seals for sound attenuation

Variants

- KUL: Non-return damper, duct connection without flange holes
- KUL-G: Non-return damper, duct connection with flange holes

Parts and characteristics

- Casing
- Blades with low-friction bearings
- Blade restrictors
- Blade tip seals
- Bottom travel stop (angle section)
- Visible mullion from B = 1000 mm

Accessories

- Installation subframe: Installation subframe for the fast and simple installation of mechanically self-powered dampers

Construction features

- Casing, material thickness 1.25 mm
- Blades, material thickness 1.0 mm
- Flanges on both sides, suitable for duct connection
- Additional side bar with fixing holes to accommodate the blade shafts and integral blade restrictors (pins)
- Blade restrictors prevent the blades from opening beyond a certain angle

Materials and surfaces

- Casing and travel stop (angle section) made of galvanised sheet steel
- Blades made of formed aluminium
- Mullion (from B = 1000 mm) made of galvanised sheet steel
- Blade shafts made of brass
- Side bar made of PVC plastic
- Blade tip seals made of foamed polyester
- Blade restrictors made of plastic

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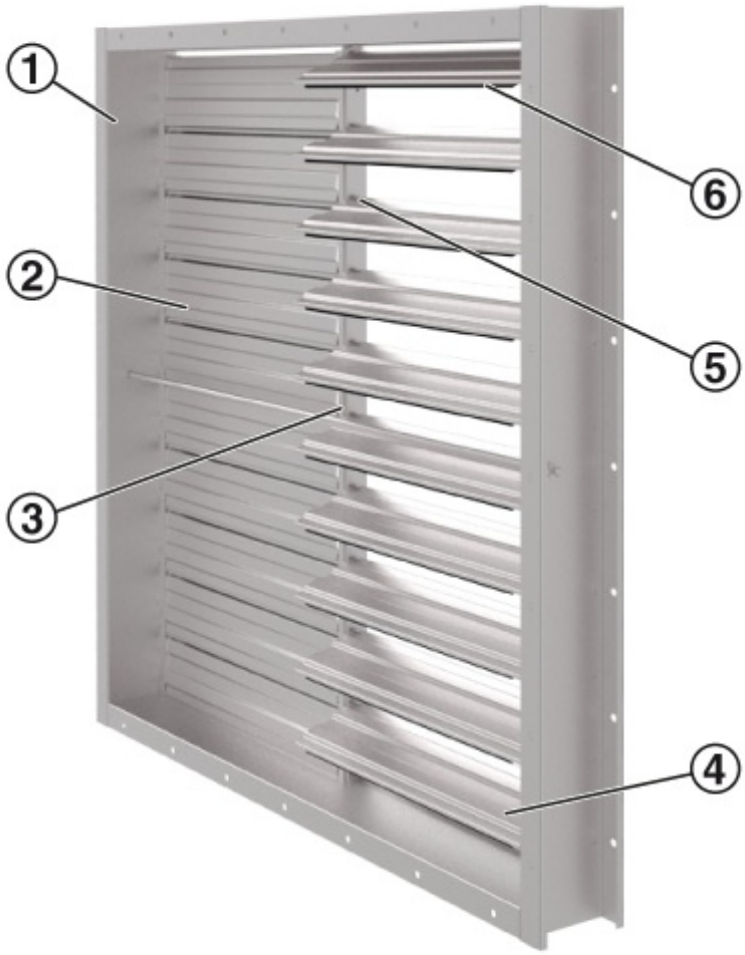
Functional description

Non-return dampers open and close automatically.

When the system is in operation, the blades open when air flows.

When the system is shut down, the blades close due to their weight. They safely prevent air from flowing against the intended airflow direction.

Schematic illustration of KUL



① Border
② Blades (closed)
③ Mullion from B = 1000 mm
④ Blades (open)
⑤ Blade restrictor
⑥ Seal

Rectangular non-return dampers to prevent air from flowing against the intended airflow direction through fresh air and exhaust air ducts of air conditioning systems.

Ready-to-install component which consists of a casing, blades with low-friction bearings, and travel stop and sealing parts.

Special characteristics

- Any intermediate sizes within the standard size range are available
- Temperature resistant up to 80 °C
- Maximum pressure of 100 Pa
- Non-return dampers are opened and closed by the airflow; no actuator is required
- Non-return damper with formed aluminium blades for normal requirements; blades are fitted with seals for sound attenuation

Materials and surfaces

- Casing and travel stop (angle section) made of galvanised sheet steel
- Blades made of formed aluminium
- Mullion (from B = 1000 mm) made of galvanised sheet steel
- Blade shafts made of brass
- Side bar made of PVC plastic
- Blade tip seals made of foamed polyester
- Blade restrictors made of plastic

Technical data

- Nominal sizes: 200 × 215 to 1600 × 1615 mm
- Volume flow rate range: 110 – 6460 l/s or 396 – 23256 m³/h at 2.5 m/s
- Total differential pressure – exhaust air: 25 Pa at 2.5 m/s
- Total differential pressure – fresh air: 25 Pa at 2.5 m/s

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