



# ALSHARQA



## NON RETURN DAMPER

AIR OUTLETS  
TECHNICAL CATALOGUE



Air Conditioning and Industries

المصرية الخليجية لأعمال التكييف - الشارقة  
*egyptian gulf for the work  
of air conditioning*



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### 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:

### 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 galvanized sheet steel
- Blades made of formed aluminum
- Mullion (from B = 1000 mm) made of galvanized 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



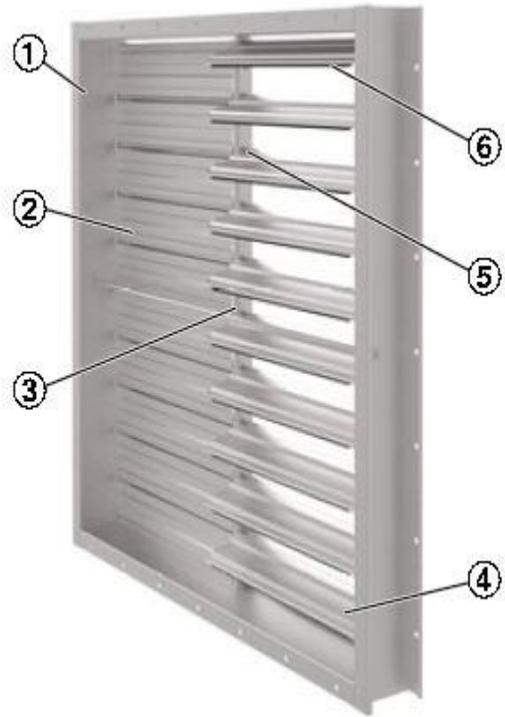
## Function

### 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 and safely prevent air from flowing against the intended airflow direction.

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



<b>Nominal sizes</b>	200 × 215 to 1600 × 1615 mm
<b>Volume flow rate range</b>	110 – 6460 l/s at 2.5 m/s 396 – 23256 m <sup>3</sup> /h at 2.5 m/s
<b>Total differential pressure – exhaust air</b>	396 – 23256 m <sup>3</sup> /h at 2.5 m/s
<b>Total differential pressure – fresh air</b>	25 Pa at 2.5 m/s



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