



Air Control Dampers

Stainless Steel Control 165SS

- Standard dampers for flow control applications
- Grade 316 Stainless Steel for corrosion resistance
- Aerofoil section blades for low air flow resistance in fully open position
- Contra rotating blades with linkage operation allows for expansion at high temperatures
- Operating temperatures up to 300°C



165L

- Blade width 165mm
- Casing Depth 185mm
- Maximum Module Size:
Width(A)mm 2000mm
Height(B)mm 2000mm
- Operating temperature
- Nylon bearings -40°C to +100°C max
- PTFE bearings -40°C to +150°C max
- Brass bearings -40°C to +300°C max

Casing

Made from 1.2mm stainless steel, the frame is extremely rigid to prevent distortion, overcoming the problem of binding or sticking blades which often results in damaged actuators. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly.

Blades

Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm stainless steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm stainless steel stub shafts.

Operation

To allow for expansion at high temperatures the units utilise an external linkage giving contra rotational blade operation. Manufactured from 316 material the mechanism offers the same level of corrosion and temperature resistance as the main components of the damper.

Bearings

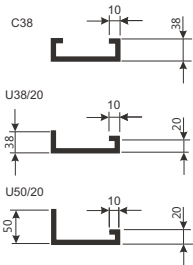
Low friction Nylon bearings combine corrosion resistance with medium temperature operation. Standard on stainless steel dampers they are ideal for most applications at temperatures up to 110°C. Above this temperature brass bearings should be specified.

Seals

Each shaft bearing is fitted with an nylon sleeve to provide an airtight seal through the damper casing and prevent the entry of dust into the bearing.

Flanges

Three standard flange profiles are available as follows:



In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

Actuation

Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.

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