



Air Control Dampers

Standard Damper 100S/165S

- Standard Damper for flow control applications
- Aerofoil section blades for low air flow resistance in fully open position
- Available with 100mm or 165mm blade widths
- Wear resistant aluminium gears
- Nylon bearings ensure maintenance free long life
- Opposed blade operation for progressive air control



100L

- Blade width 100mm
- Casing Depth 110mm
- Maximum Module Size:
Width(A)mm 1600mm
Height(B)mm 1600mm
- Operating temperature -40°C to +80°C max

165L

- Blade width 165mm
- Casing Depth 175mm
- Maximum Module Size:
Width(A)mm 2000mm
Height(B)mm 2000mm
- Operating temperature -40°C to +80°C max



Casing

The damper frame of 1.2mm galvanised steel is extremely rigid to prevent distortion, which can result in binding blades. 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 galvanised steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm galvanised steel stub shafts. Blade edge seals in Neoprene rubber are compressed as the dampers close to provide positive sealing, with almost zero leakage through the blades.

Operation

Aluminium gears provide positive drive across the complete blade train. The gears are produced by a unique roll forming process which produces hardened teeth. The result is a gear which is extremely hard wearing giving long service life under constant movement or dusty conditions.

Bearings

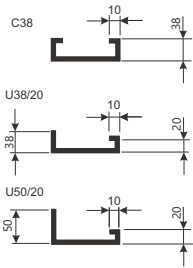
High density nylon bearing are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. The standard bearings are suitable for working temperatures up to 90 C, alternative brass or Teflon bearings are available for higher operating temperatures.

Seals

Each shaft bearing is fitted with an external nylon cap to provide an airtight seal through the damper casing and prevent the entry of dust into the bearing. Control Dampers are not fitted with blade seals or top/bottom stops.

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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