

# 2000 SERIES VOLUME CONTROL DAMPERS



Extruded Aluminium Blade

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Low Leakage and Pressure Drop

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Prevents Unwanted Turbulence and Noise

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**Advanced Air** 

## 2000 Series volume control dampers

### FEATURES

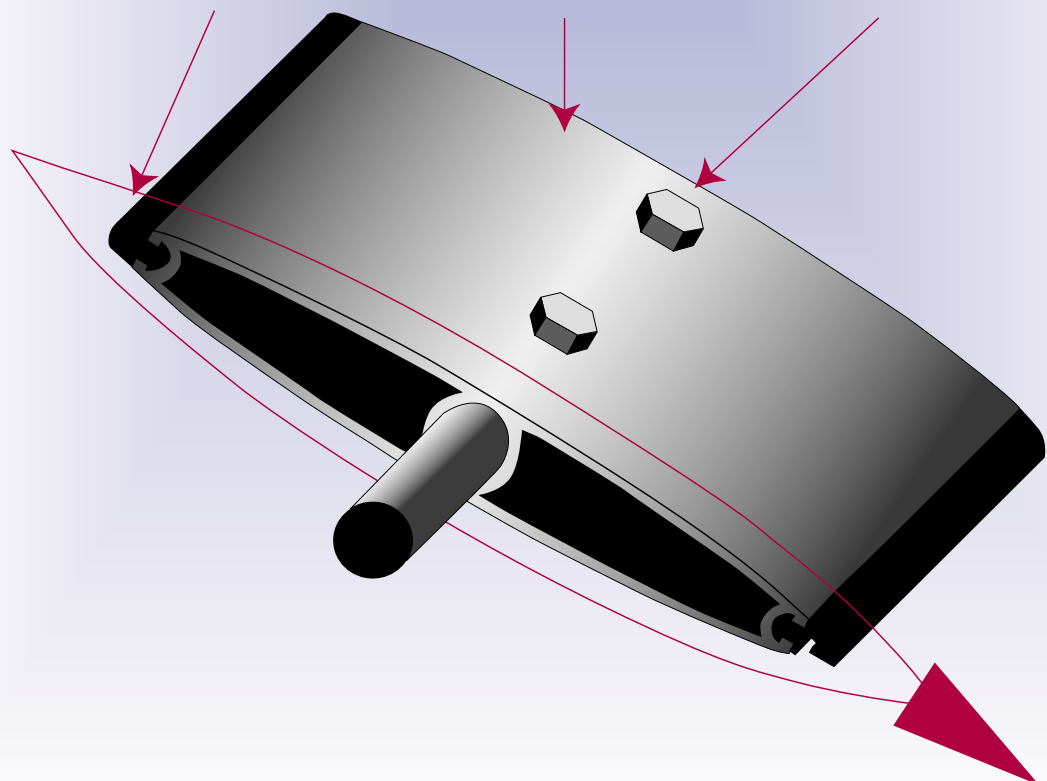
- Airfoil section extruded aluminium blades mounted within a rigid galvanised, flanged mild steel frame provides the basis for a low leakage, high performance volume control damper.
- Santoprene blade tip seals and Stainless Steel side jamb seals ensure class-leading leakage performance.
- Low friction bearings and substantial blade linkages afford quiet operation and low torque requirements.
- 2000 Series dampers can be mounted in vertical or horizontal planes
- Five standard blade sections provide a size range as follows:-  
width 100 mm to 1200 mm  
height 100mm to 1800 mm in 25mm increments
- Suitable for manual or motorised operation. Most standard motors can be factory fitted if required

### Airfoil Blade and Seal are Designed for Optimum Performance

Dual-Durometer Blade Seal is Keyed into Blade Extrusion Slot and Mechanically Locked

Smoothly Contoured Aluminium Blade

Each Blade is Non-Slip Double-Bolted to Axle for Security



# Specification for the 2000 Series damper

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## FRAME

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- Manufactured from continuously hot-dip zinc coated mild steel to BS EN10142:1991
- Steel 1.6mm thick and produced to BS EN 10143:1993
- Rectangular flanged form, assembled with die formed corner channels for strength and rigidity

## FRAME SIDE SEALS

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- Frame comes complete with integral full-height vertical side jamb seals to both bearing sides of the frame, manufactured from 0.006 in. thick grade 301 spring stainless steel to BS 1449:1995 with dimensions and tolerances to BS EN 10021

## BLADES

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- Manufactured from extruded hollow airfoil section Aluminium to BS 1474:1987, the alloy being 6063 (T6 temper)
- Come complete with 12.7mm diameter zinc coated mild steel stub shafts, directly bolted to each end of the blade using two bolts which are fitted with aerodynamic securing nuts.

## BLADE TIP SEALS

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- Integral Santoprene blade tip seals along entire length of the leading and trailing edges, mechanically retained within each blade

## BEARINGS

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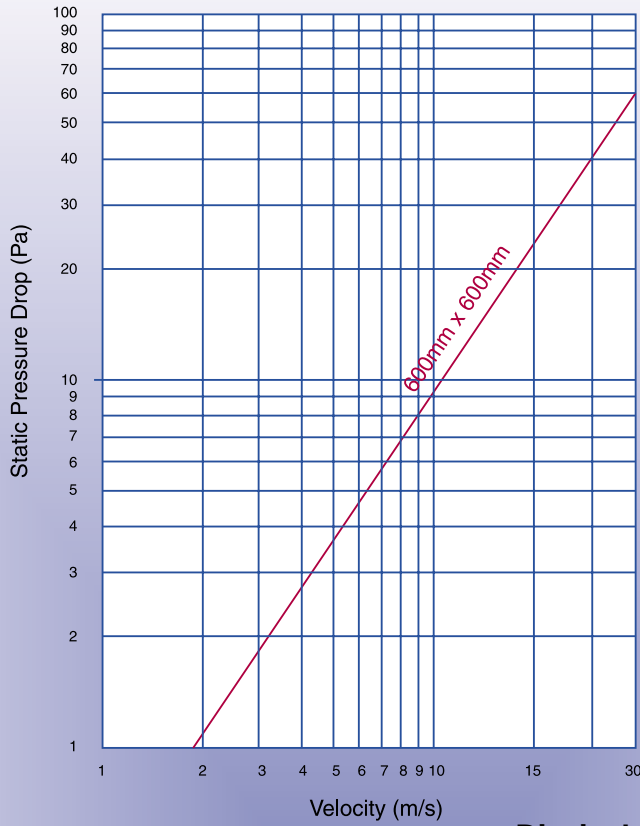
- Each blade stub shaft is supported in selcon bearings which are mechanically retained within the vertical sides of the casing

## DRIVE MECHANISM

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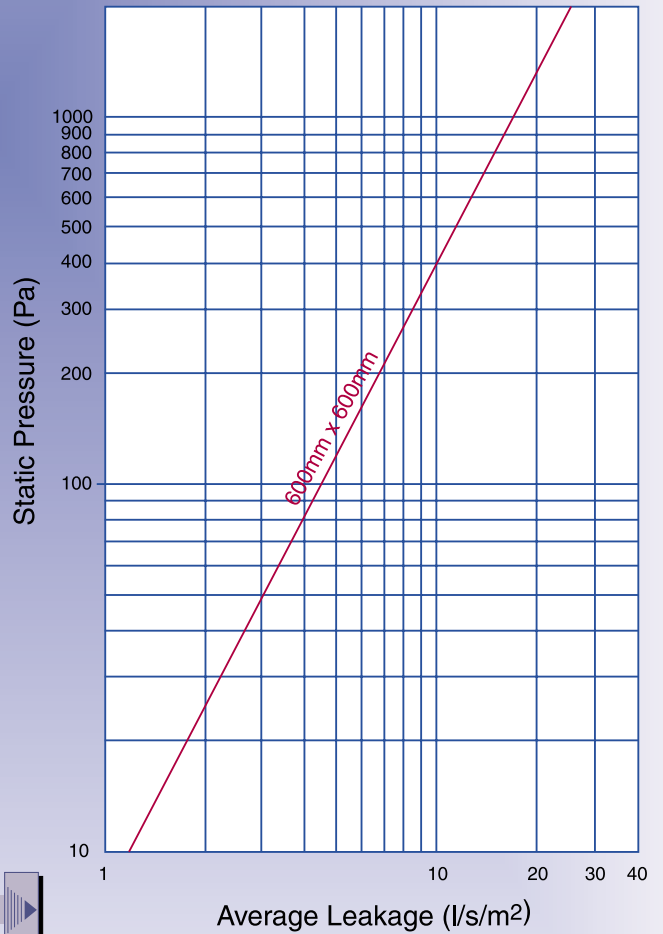
- Driven by side linkage manufactured from zinc electroplated mild steel
- Externally mounted within frame, totally out of the airstream
- All joints and wearing surfaces are manufactured from low resistance materials

## Pressure Drop - Damper Fully Open



The information contained in this publication is correct at the time of printing. Continuous product development means that from time to time product specifications and other information will change. The company therefore reserves the right to modify or withdraw any of the products described without prior notice.

## Blade Leakage



**Advanced Air**  
**(UK) Limited**