

PVC SPECIAL APPLICATION DAMPER

K500-X (PVC)

Description:

- K500-X - Plastic special application multi-leaf opposed blade volume control damper



Applications:

- The K500-X opposed blade volume control damper is a corrosive resistant product for use in corrosive atmospheres and with aggressive media
- These multi-leaf dampers are primarily used in ventilation systems for volume control, pressure control and air balance where there are airborne contaminant present
- Coastal installations
- Sewage treatment plants
- Water treatment works
- Fume cupboard extract systems
- Variable air volume fume cupboard systems

Quality – Investment – Innovation

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Features:

- Rigid PVC double skin casing
- Aerofoil section extruded PVC blade
- Opposed blade action for optimum air control
- Individual blade coupling by plastic gears, running in maintenance free bushes
- External gears c/w blade position indicators and clear PVC cover
- Encased bearing, with one casing penetration
- Suitable for GRP cladding
- Manual, electrical or pneumatic factory fitted control options

Construction:

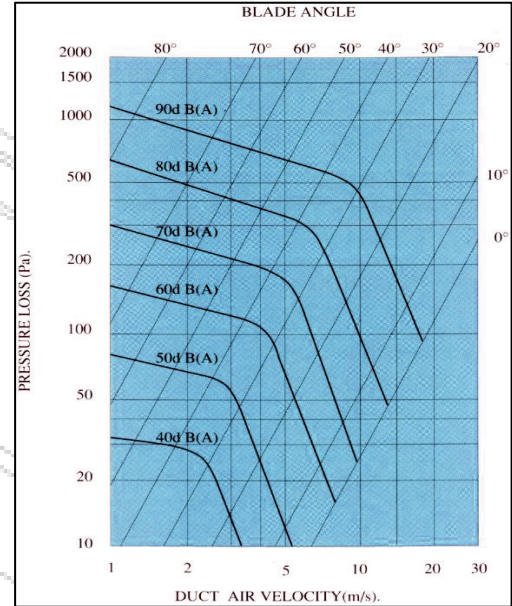
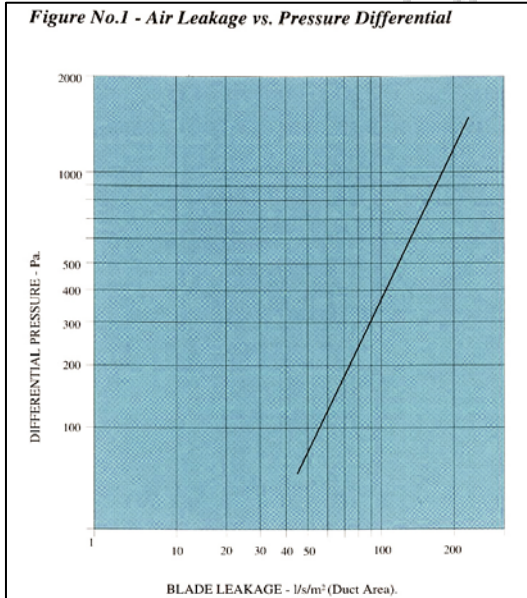
- Casing – PVC-U extruded 6.00mm thick double skin casing, 160mm deep with 50mm flanges
- Blades – PVC-U extruded Aerofoil section double skin blades, 103mm wide
- Linkage (External) – Polypropylene gear, fitted with 25mm diameter integral stub shaft
- Bushes – PTFE flanged bush, 25mm diameter x 2.5mm thick
- Drive Spindle – 316 grade Stainless steel, 12.7mm square full length shaft

Options:

- GRP clad casings
- Low Leakage damper using specially coated K200 aluminium blades with EPDM edge
- Circular, spigot and flange connections
- Flange drillings
- Backing flanges

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LA-A-Weighted sound power level related to a 0.5m² duct (dB(A))
Correction factors for noise levels

A (m ²)	0.5	1.0	1.5	2.0	3.0	4.0
K (db)	0	+3	+5	+6	+8	+9

1. Damper torque due to aerodynamic loading

$$T_{air} = \frac{a \times \Delta p \times A}{100}$$

2. Damper torque required to close the dampers

$$T_c = 20A$$

a- Torque coefficient

Δp - Total pressure difference across damper (Pa)

A- Damper area (in²)

T- Torque (Nm)

