

PVC CORROSION RESISTANT DAMPER

K500 PVC

Description:

- **K500-PVC - Plastic corrosive resistant multi-leaf opposed blade volume control damper**



Applications:

- **The K500-PVC 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 air conditioning and ventilation systems for volume control, pressure control and air balance**
- **Swimming pool installations**
- **Fume cupboard extract systems**
- **Variable air volume fume cupboard systems**
- **Wash down dampers**
- **Agricultural stores**

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 Polypropylene gears, running in maintenance free PTFE bushes
- Anti-corrosive guarantee for swimming pool applications
- Encased bearing, with one casing penetration
- Suitable for GRP cladding
- Manual, electrical or pneumatic factory fitted control options

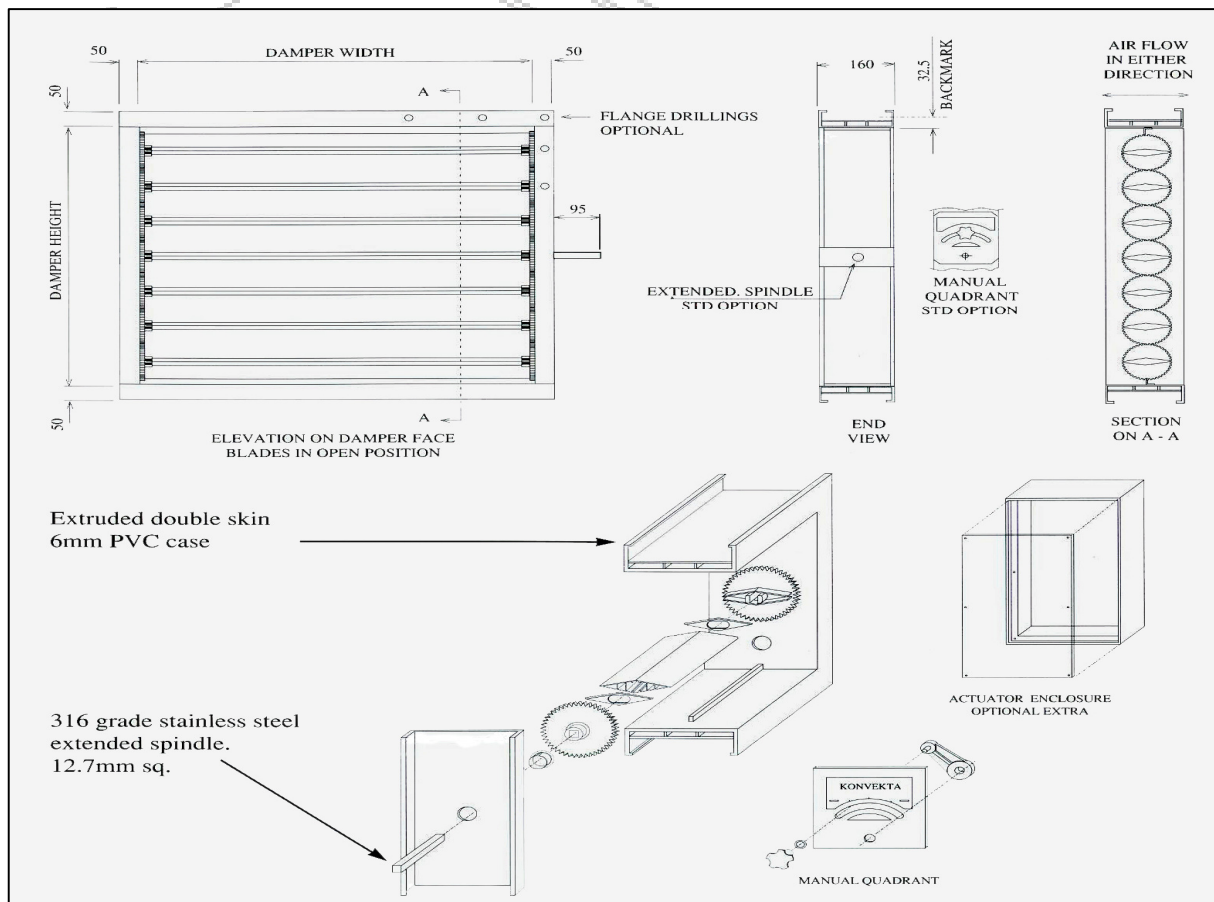
Construction:

- 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 – 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

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Damper Construction



Size Range:

- 100 W x 108 H to 1000 W x 1250 H in a single module
- For larger multiple module assemblies, please consult our technical department for details
- Circular, flat oval, spigot & flanged units are available

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KONVEKTA

AIR CONTROL EQUIPMENT

K500

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Options:

- GRP clad casings
- Low Leakage damper using specially coated K200 aluminium blades with EPDM edge seals
- Circular, spigot and flange connections
- Flange drillings
- Backing flanges
- Complimentary range of PVC non-return dampers
- External linkages or gears

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We reserve the right to make specification changes without prior notice or obligation

Revision: 01/2010

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Operating Conditions:

- Temperature: -10°C to +60°C
- Pressure: ± 2500Pa
- Velocity: up to 20m/s

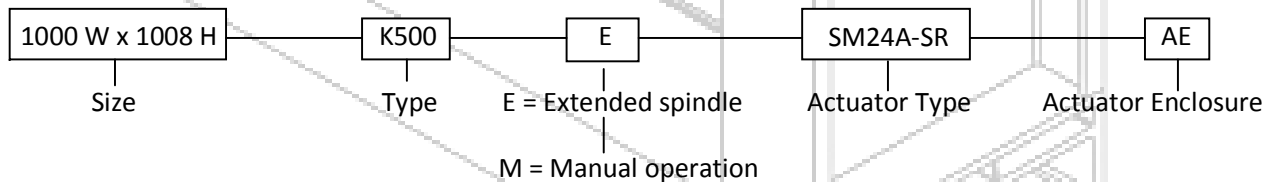
Control Options:

- M = Manual operated quadrant
- E = Extended spindle for motorization (by others)

Factory Fitted Actuators:

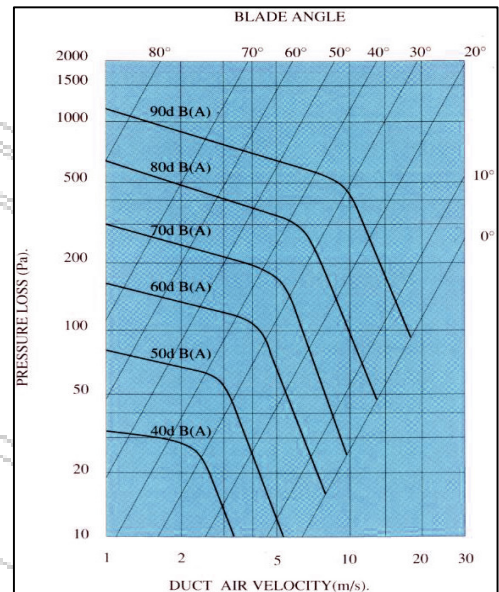
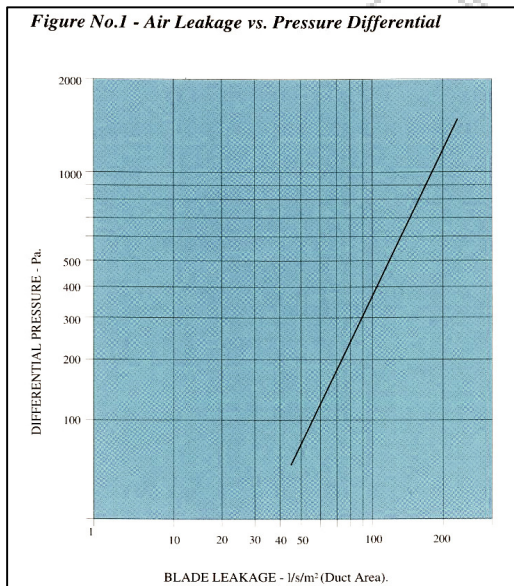
- Electrical actuator options – 24/110/240 volt units. Double acting /open-close, modulating, spring return
- Pneumatic actuator options – Double acting/open-close, modulating, spring return

ORDERING



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

A (m²)	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

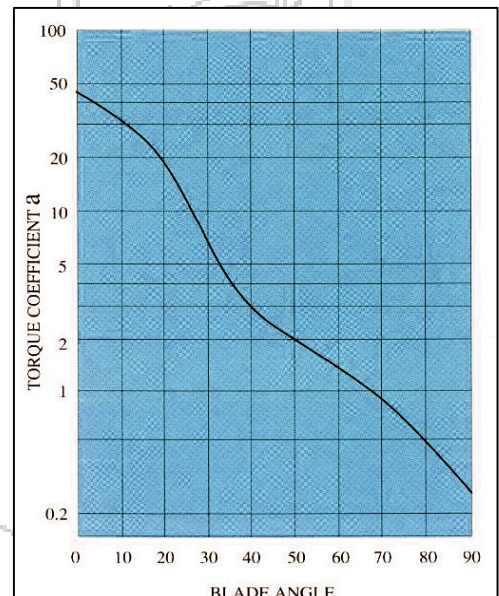
$$T_c = 20A$$

a- Torque coefficient

Δp - Total pressure difference across damper (Pa)

A- Damper area (in²)

T- Torque (Nm)



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