

CONTROL / BALANCE DAMPER K300, K400

Description:

- K300 Stainless Steel Control / Balancing volume control dampers
- K400 Galvanised Control / Balancing volume control dampers



Applications:

- Multi-leaf dampers primarily used in air conditioning and ventilation systems
- Ductwork system balancing
- Air control within ductwork system/air handling units i.e. air control at mixing box, face and bypass dampers, etc.
- K300 stainless steel damper is for use in both corrosive atmospheres and within the food industry
- K300 stainless steel damper is used for wash down of coils within air handling units
- Suitable for high pressure/velocity installations

Quality – Investment – Innovation

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Features:

- High strength channel casing
- Aerofoil section high strength blade
- Opposed blade action for optimum air control
- Full Length 12.7mm square drive shafts
- Individual blade coupling by plastic gears, running in maintenance free acetal bushes, forming a non-ferrous gearing system
- Encased bearings
- K300 dampers are manufactured from high quality 316 grade stainless steel
- Manual, electrical or pneumatic factory fitted control options
- Large single and multiple module assemblies
- Circular Spigot or Flanged connections available

Construction:

- Casing – 1.2mm thick galvanised mild steel on K400's and 316 grade stainless steel on the K300's, 132mm deep and 40mm flanges c/w 10mm return edge
- Blades – Aerofoil section 0.8mm galvanised steel on K400's and 316 grade stainless steel on the K300's, 103mm wide
- Gears – Plastic gear fitted with integral stub spindles
- Bushes – Hard acetal incorporating locking rib and fitted direct to gear stub spindle, encased as standard

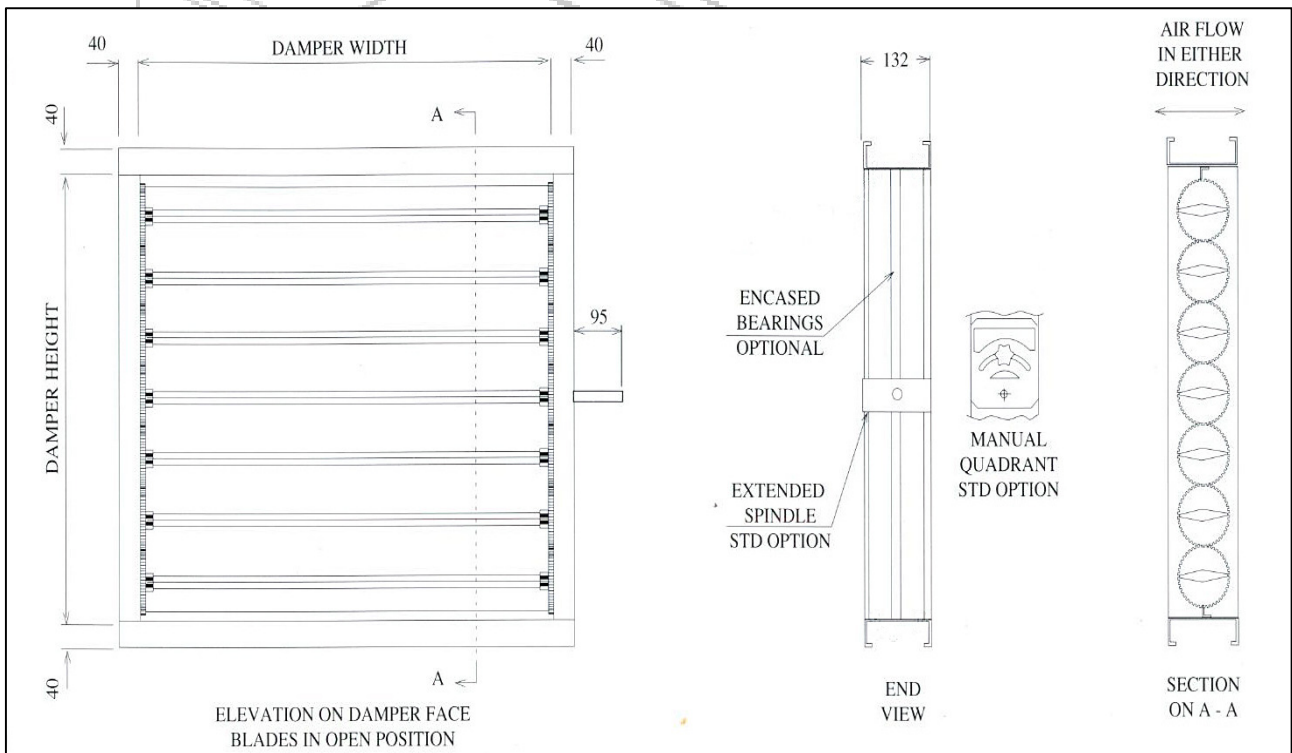
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Damper Construction

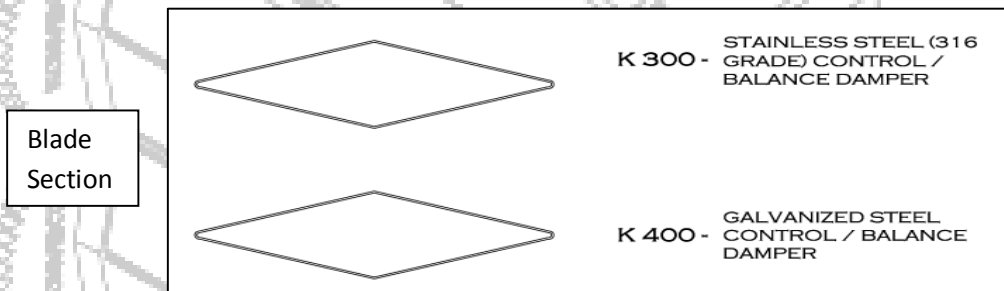
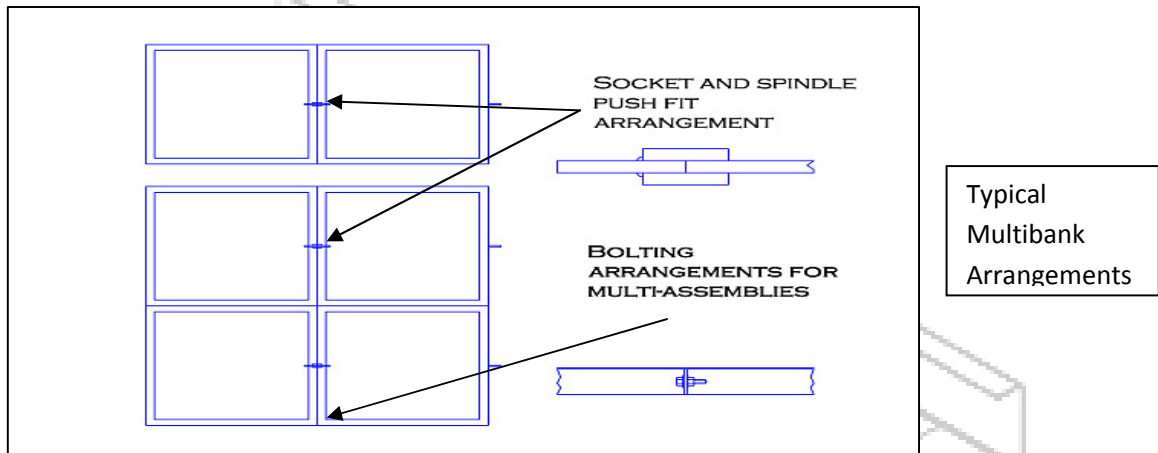


Size Range:

- 100 W x 108 H to 1250 W x 1250 H in a single module
- Multiple module assemblies available
- Circular, flat oval, spigot & flanged units are available

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Options:

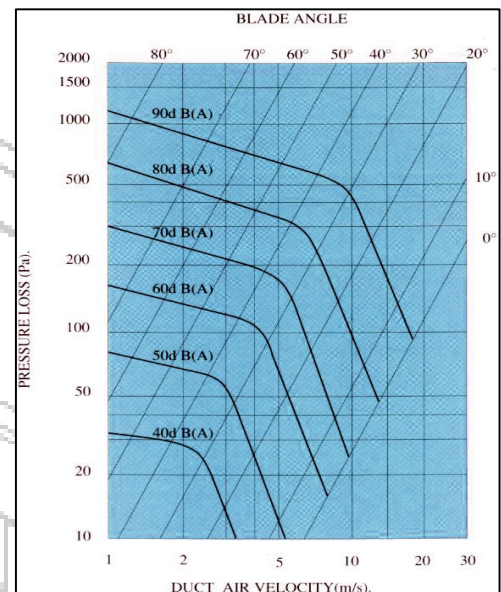
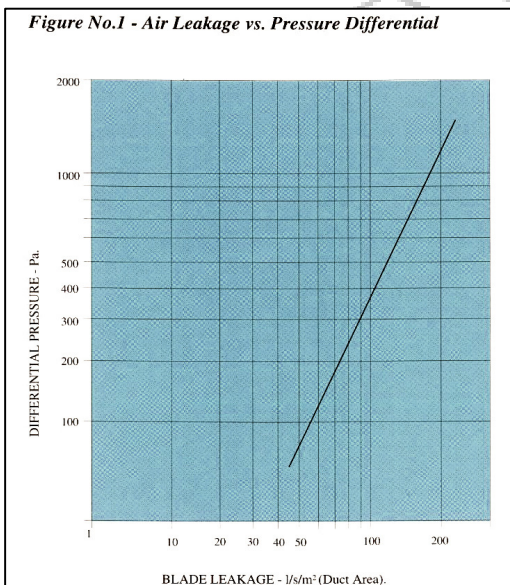
- Damper casing materials available in Aluminium and PVC
- Dampers incorporating oilite or stainless steel bearings
- External linkages or gears
- Parallel bladed dampers
- High temperature application dampers
- Face and bypass dampers
- Damper cases to suit customer requirements
- Flange drillings
- Powder coated casing & blades

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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

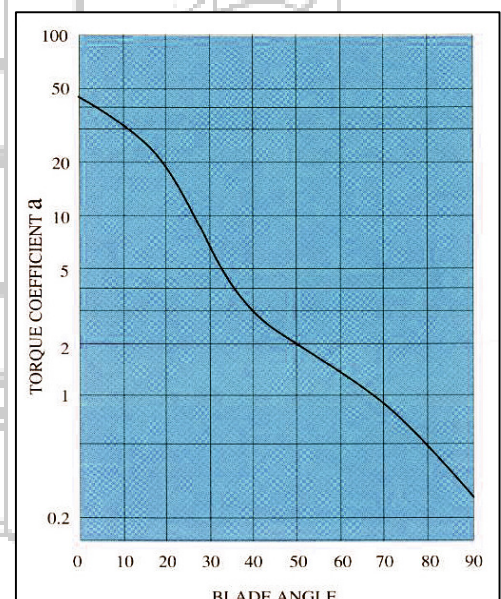
$$T_c = 20A$$

a- Torque coefficient

Δp- Total pressure difference across damper (Pa)

A- Damper area (in²)

T- Torque (Nm)



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