

CORROSION RESISTANT ISOLATION DAMPER

K150-U, K250, K250-U

Description:

- K150-U Ultra low leakage energy saving control / isolation damper (Insulated Blades). Blade leakage in accordance with DIN 1946 part 4
- K250 Low leakage control / isolation damper
- K250-U Ultra low leakage control / isolation damper. Blade leakage in accordance with DIN 1946 part 4



Applications:

- The K150 & K250 Isolation dampers utilise corrosion resistant materials for use in corrosive atmospheres and with aggressive media
- This range of dampers are energy saving, reducing air loss considerably over standard products. The K150-U incorporates insulated blades for improved thermal performance and noise reduction
- Odour control ventilation systems
- Room isolation in manufacture of pharmaceutical products
- Swimming pool & leisure centres
- Direct fixing to the inlet louvres to form one assembly
- Agricultural stores
- System sterilization

Quality – Investment – Innovation

CORROSION RESISTANT ISOLATION DAMPER

K150-U, K250, K250-U

Features:

- K150-U and K250-U ultra-low leakage dampers meet the stringent DIN 1946-part 4 standard for blade leakage
- K150-U dampers incorporate thermal insulation within the blade section
- Rigid PVC double skin casing
- Opposed blade action for optimum air control
- Encased bearing, with one casing penetration
- Manual, electrical or pneumatic control options
- Large single and multiple module assemblies
- Circular Spigot or Flanged connections available
- Face and bypass dampers

Construction:

- Casing – PVC-U extruded 6.00mm thick double skin casing, 160mm deep with 50mm flanges
- Blades –Epoxy coated Aerofoil section extruded aluminium blades, 103mm wide c/w EPDM edge seals. K150-U blade sections filled with thermal insulation
- Gears – polypropylene gear with integral stub spindle. K150-U and K250-U gear fitted with foam/felt side seals running on low friction PTFE strip
- Bushes - PTFE flanged bush, 25mm diameter x 2.5mm thick
- Drive Spindle - 316 grade Stainless steel, 12.7mm square full-length shaft

Tel: +44 (0)1706 227018

www.konvekta.co.uk

e-mail: sales@konvekta.co.uk

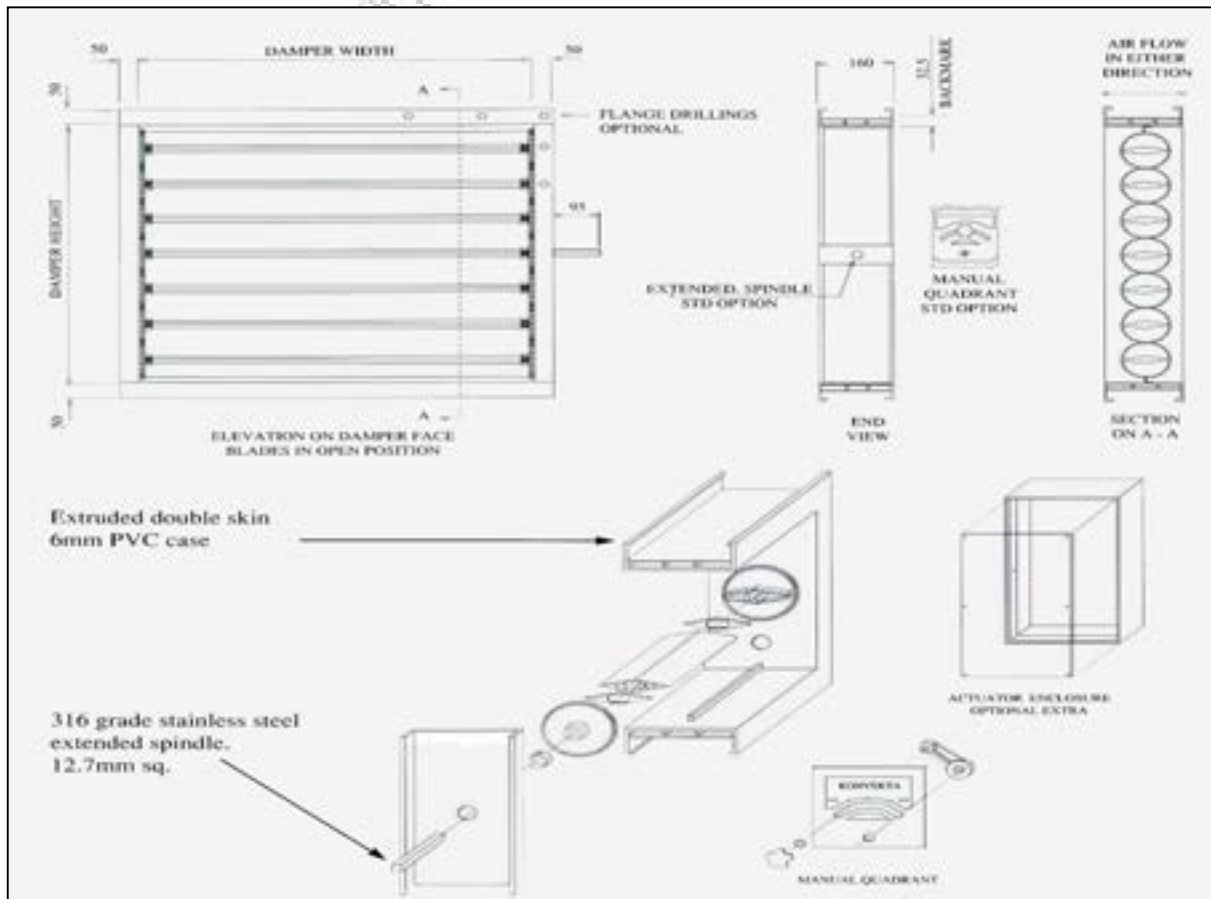
We reserve the right to make specification changes without prior notice or obligation

Revision: 01/2018

CORROSION RESISTANT ISOLATION DAMPER

K150-U, K250, K250-U

Damper Construction



Size Range:

- 100 W x 108 H to 1000 W x 1008 H in a single module
- For larger multiple module assemblies, please consult our technical department
- Circular, flat oval, spigot & flanged units are available

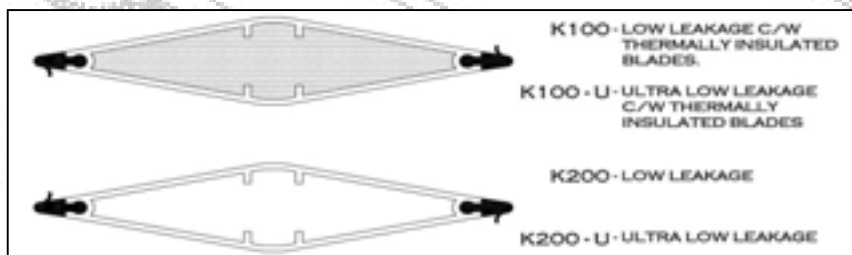
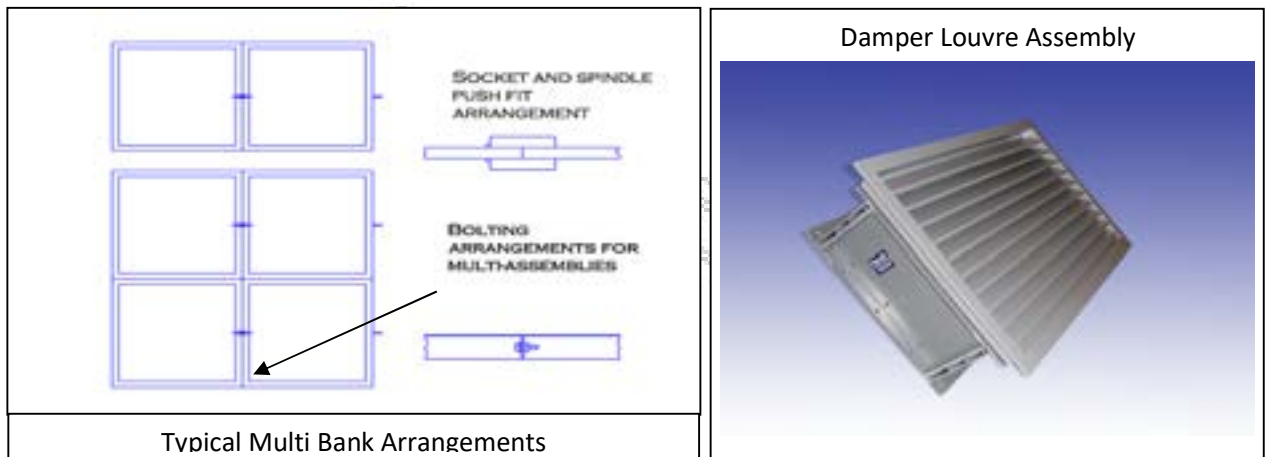
Quality – Investment – Innovation

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

Revision: 01/2018

CORROSION RESISTANT ISOLATION DAMPER

K150-U, K250, K250-U



Options:

- GRP Cladded Casings
- Damper casing materials of 316 grade stainless steel
- External gears system ("X" Type)
- Face and bypass dampers
- Flange drillings
- Backing Flanges
- Concealed Actuators
- Actuator Enclosures

Tel: +44 (0)1706 227018

www.konvekta.co.uk

e-mail: sales@konvekta.co.uk

CORROSION RESISTANT ISOLATION DAMPER

K150-U, K250, K250-U

Operating Conditions:

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

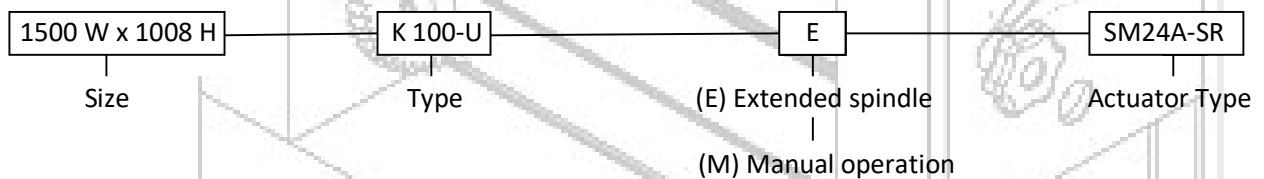
Control Options:

- 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



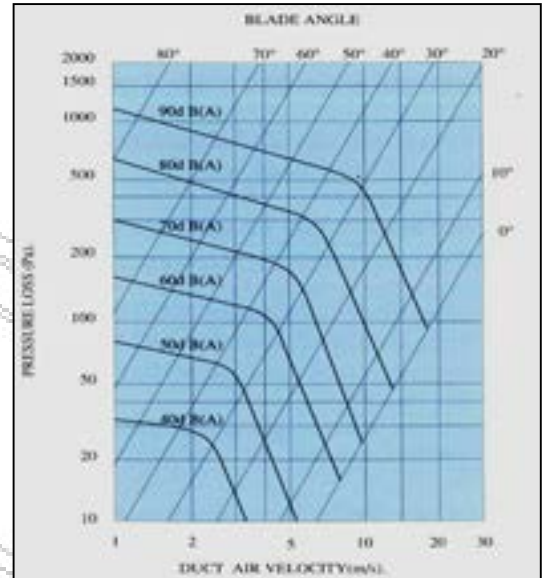
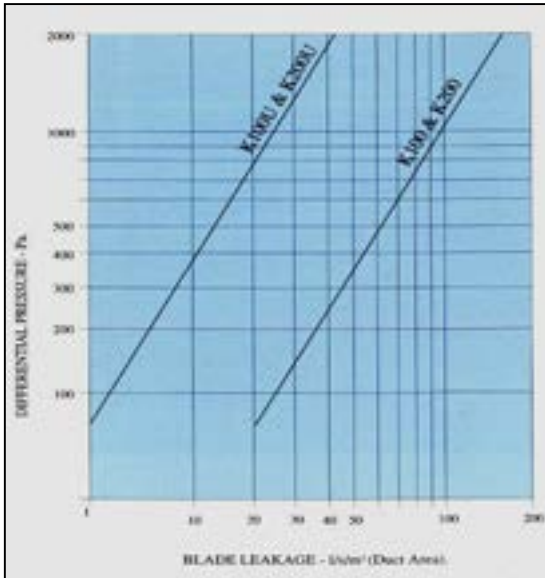
Quality – Investment – Innovation

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

Revision: 01/2018

CORROSION RESISTANT ISOLATION DAMPER

K150-U, K250, K250-U



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

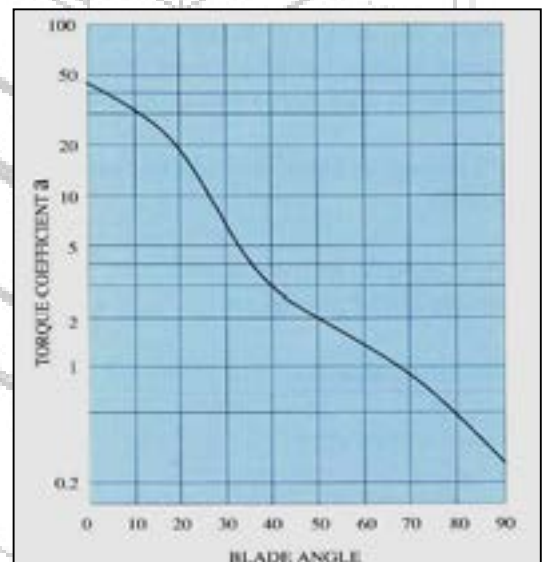
$$T_c = 20A$$

a- Torque coefficient

Δp - Total pressure difference across damper (Pa)

A- Damper area (in²)

T- Torque (Nm)



Tel: +44 (0)1706 227018

www.konvekta.co.uk

email: sales@konvekta.co.uk