HVC

Incorporating

NEA

Volume Control Dampers

NCA Series 900

Standard VCDs and shut-off dampers

- Volume control dampers and low leakage shut-off dampers for general applications
- Double skin aerofoil blades
- Square, circular and flat oval connections for all types of ductwork
- Galvanised steel, stainless steel or aluminium construction
- Full range of actuators

S900: April 2016

NCA Series 900 dampers

Series 900 dampers are multi-leaf, opposed blade dampers available in two configurations:

S900B: Standard volume control dampers

Designed for balancing applications where a high level of shut-off is not required.

Fitted with a lockable plastic handle as standard.

S900C: Shut-off dampers

Fitted with additional seals, shut-off dampers have a far lower leakage than regular volume control dampers.

Supplied with an extended spindle as standard, facilitating motor fitment by others.

Design features

Material	S900B: Galvanised steel throughout Stainless steel frame/case/blades or aluminium blades optional
	S900C: Galvanised steel frame and case, aluminium blades, stainless steel side seals, silicone rubber blade seal Stainless steel case and frame optional
Sizes	Minimum: 100mm x 100mm nominal
	S900B: Maximum single unit: 1000mm width, 1000mm height or 1000mm diameter S900C: Maximum single unit: 1000mm width, 800mm height or 800mm diameter Above any of these, units would be made in sections or with mullions
Frame	30mm wide flange
	65mm overall depth
Finish	Bare metal
Mass/m² face area	16 kg (S900BAG - 1000mm x 1000mm nominal size). Smaller units will be proportionally heavier.
	Models B, C and D will be approximately 50% heavier due to the case.
Free area	80% maximum

Quality assurance

HVC Supplies (Stourbridge) Ltd is an ISO 9001 certified company.

Assessed to ISO 9001
Cert/Ref No. 1186

Product testing

DW144 - Leakage through case

NCA Series 900 volume control and shut-off dampers have been tested against:

DW144
HVCA sheet metal ductwork

This test measures leakage through the damper case at pressures from 100 Pa to 2000 Pa.

Model A units were not tested since they do not have a case.

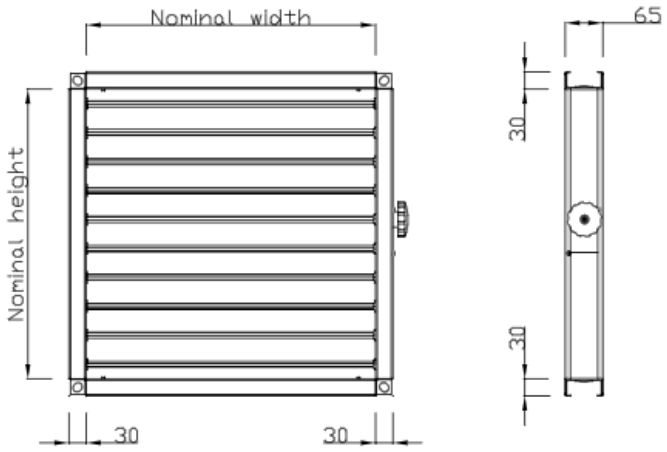
The testing was carried out in August 2009 by Building Testing Ltd in Surrey, England.

Copies of the test report are available on request.

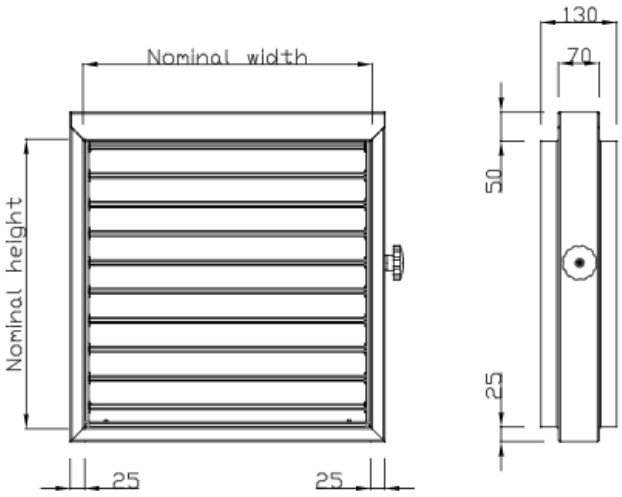
	Pressure (Pa)	Class acheived
Model B	100 - 500	A & B
	600 - 1000	B & C
	1100 - 2000	C
Model C	100 - 500	A
	600 - 2000	N/A
Model D	100	A
	200	A & B
	300 - 500	A
	600 - 2000	N/A

Technical drawings

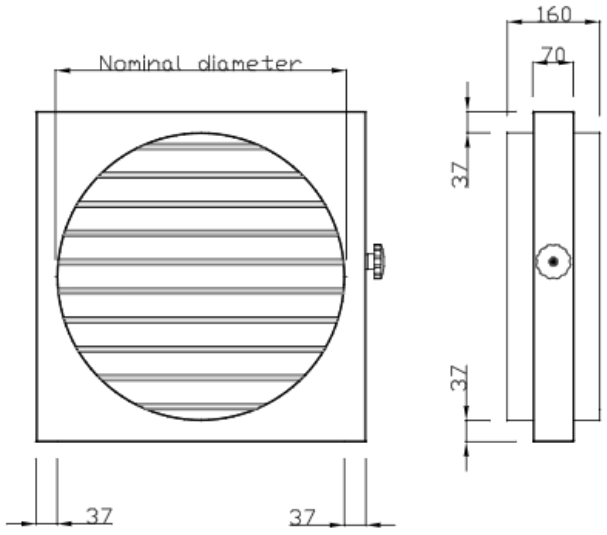
Model A: Square flanged (no case)



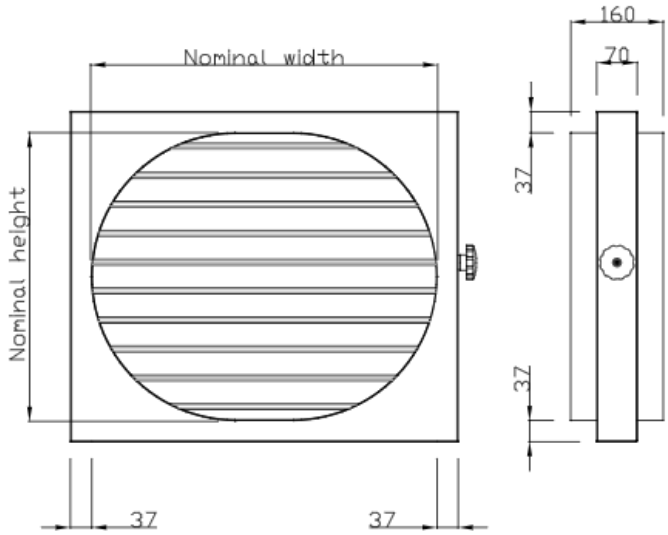
Model B: Square spigotted



Model C: Circular spigotted



Model D: Flat oval spigotted



Spigots: Model B spigots supplied 6mm under nominal size.
Model C and D spigots supplied 3mm under nominal size.

Manufacturing tolerance: + or - 1.5mm