



Incorporating

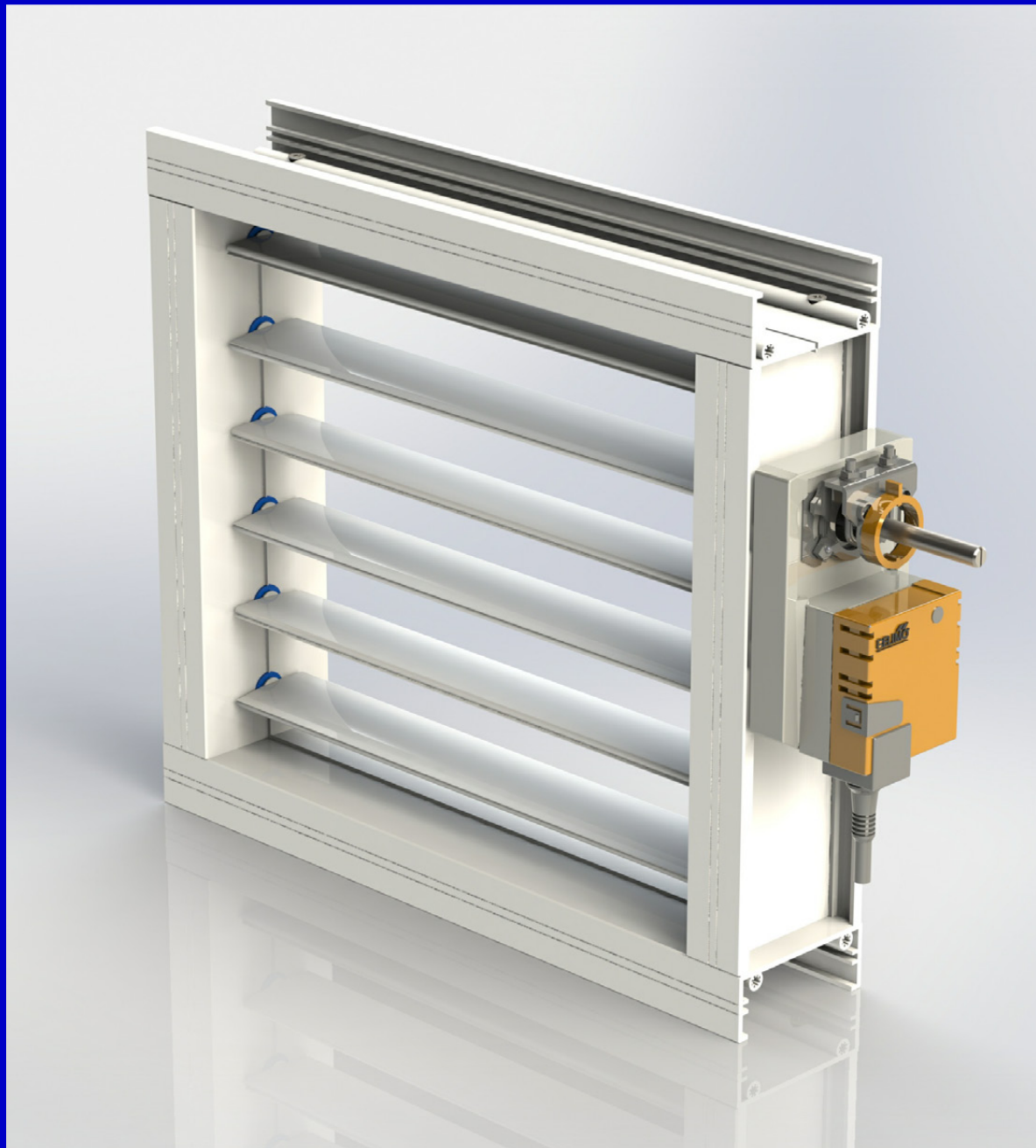


Volume Control Dampers

Series SF uPVC-VCD

Small format plastic volume control dampers

- An effective alternative to stainless steel VCDs
- Corrosion resistant, perfect for chlorinated atmospheres or coastal areas
- Lightweight plastic construction
- Manually operated or available with a full range of actuators



Series SF uPVC-VCD

The Series SF uPVC VCD is a lightweight, corrosion resistant volume control damper designed to be used in smaller sized ductwork.

The highly corrosion resistant construction makes this series of damper perfect for any application in a potentially corrosive atmosphere, swimming pools or coastal regions for instance. It also keeps required maintenance to a minimum.

The frame and blades make use of flexible co-extruded blade-tip and side seals, ensuring excellent levels of shut off.

Blades are driven by a set of fully protected gears, hidden outside the airstream to avoid any debris contamination.

Supplied as standard with an ergonomic plastic handle. Locking quadrants or factory fitted actuators are optional.



Design features

Material	Extruded rigid uPVC frame and blades
	Stainless steel fixings
Sizes	Minimum: 100mm x 55mm nominal
	Maximum single unit: 400mm width, 405mm height or 405mm diameter. Above any of these, units would be made in sections or with mullions.
Frame	35mm flange
	90mm overall depth
Finish	White uPVC
	Other colours on request. Minimum order quantities would apply.
Operation	Opposed blade, gear driven
Mass/m² face area	12.5 kg
Free area	80% maximum

Quality assurance

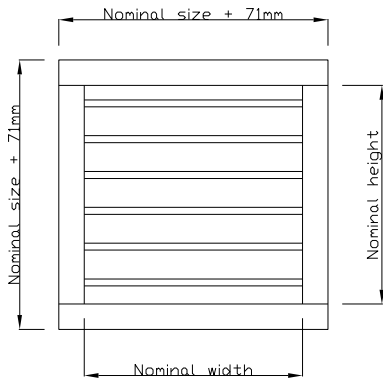
HVC Supplies (Stourbridge) Ltd is an ISO 9001:2008 accredited company.



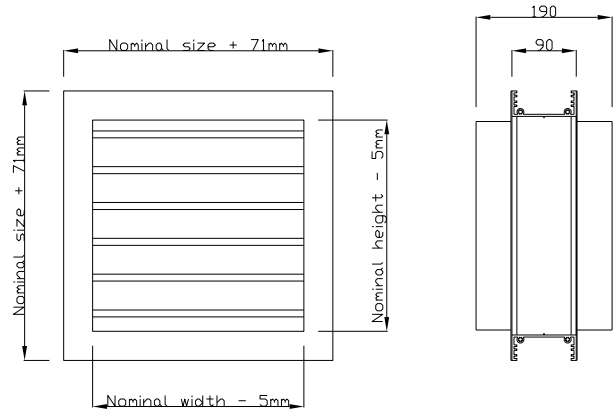
Assessed to ISO 9001:2008
Cert/Ref No. 1186

Technical drawings

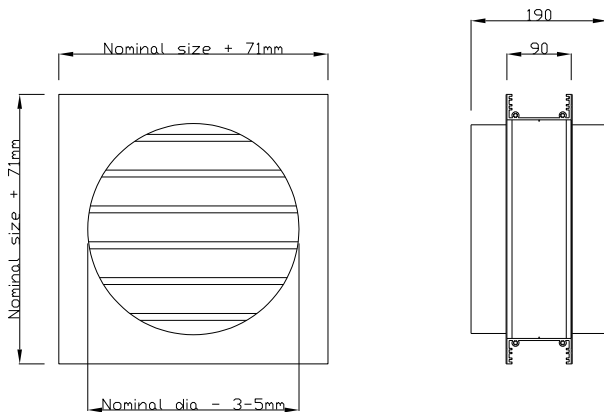
Model A: Square flanged



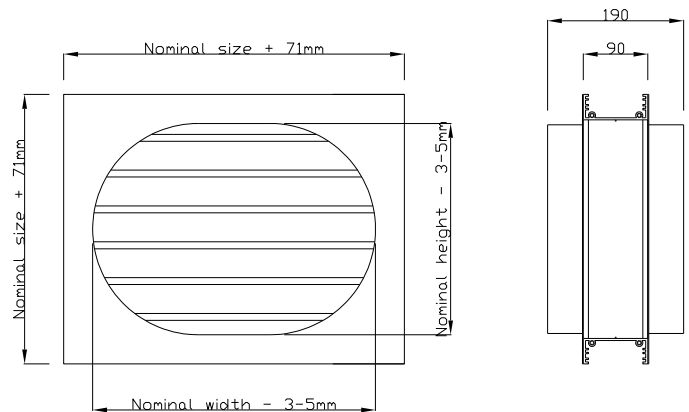
Model B: Square spigotted



Model C: Circular spigotted



Model D: Flat oval spigotted



If nominal size exceeds 400mm wide, 405mm high, or 405mm diameter, units will either be manufactured in sections, or have mullions to divide the blade pack.

Spigots are manufactured from galvanised steel, polyester powder coated white.

Manufacturing tolerance: + or - 1mm

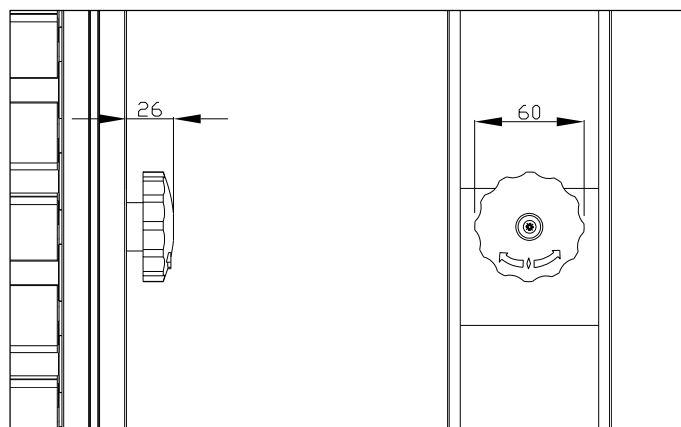
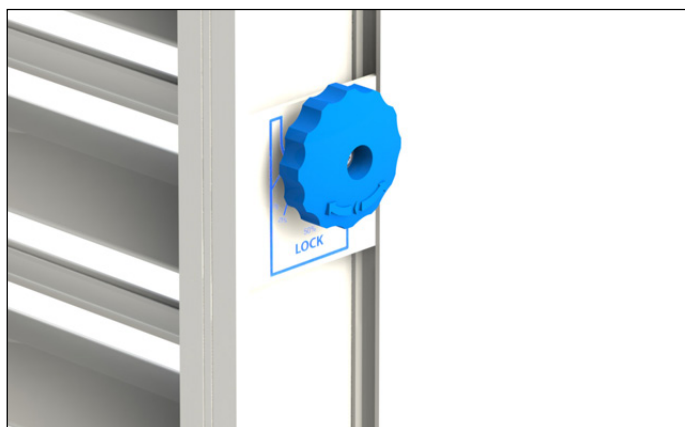
Control options

Manual plastic handles

Standard control method.

The blue nylon handle is ergonomically designed for ease of use. An embossed arrow on the handle, and a sticker on the handle mounting plate show blade position without needing to look inside the duct.

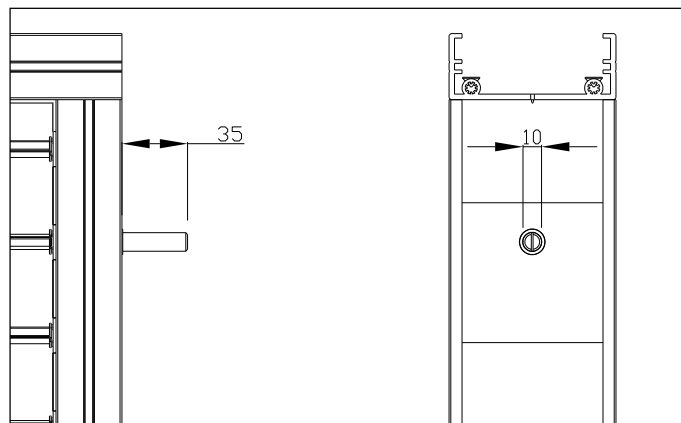
Lockable with a single pozidrive screw in the handle centre (supplied).



Extended spindles

Allows fitting of an actuator by others.

- Stainless steel
- 10mm diameter
- Extends 35mm from damper case

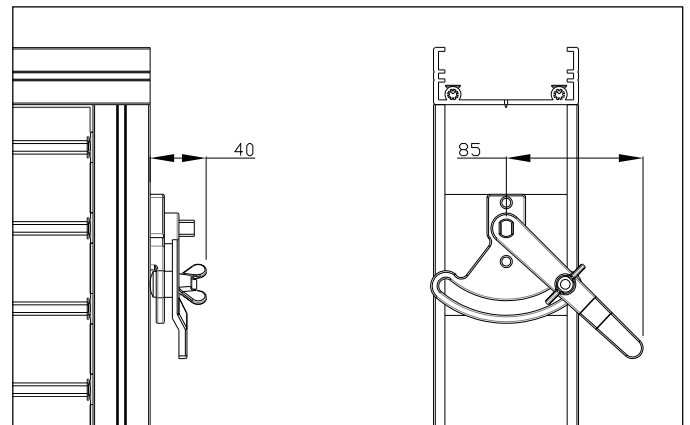


Control options

Locking quadrants

Cast aluminium locking quadrants can be fitted as an alternative to standard plastic handles.

Locking quadrants come with a cast-in position indicator and locking nut.



Actuators

HVC can supply a range of factory fitted electronic and pneumatic actuators with SF uPVC volume control dampers, from manufacturers including:

- **Belimo** - Standard applications
- **Schischek** - Specialist explosion proof actuators
- **Kinetrol** - Pneumatic actuators

Please see pages 6 and 7 for more details on actuators.



Belimo actuators

We recommend the use of Belimo actuators for applications in non-specialist environments.

All actuators are factory fitted and tested to confirm good operation. Other than connection to wiring, no alteration to the actuator is required on site.

Please see the below table to find the series of Belimo actuator you require for your application.



Series	Voltage		Action		
	24V	230V*	Power open	power close	Modulating
LM24A	✓			✓	
LM24A-SR	✓			✓	✓
LM230A		✓		✓	
LM230ASR		✓		✓	✓
LF24	✓			✓	
LF24-SR	✓			✓	✓
LF230		✓		✓	

*Suitable for 240V supply.

Schischek explosion-proof actuators

Schischek produce a range of specialist explosion-proof actuators for use in areas with potentially explosive atmospheres; E.G. petro-chemical plants, whisky distilleries and grain silos.

ATEX approved.

All actuators are factory fitted and tested to confirm good operation. Other than connection to wiring, no alteration to the actuator is required on site.

Please contact us for more information on explosion-proof actuators with SF uPVC-VCDs.



Kinetrol pneumatic actuators

We can factory fit LF uPVC VCDs with Kinetrol's compressed air driven pneumatic actuators. A range of additional options including spring return modules can be fitted to enhance functionality.

ATEX approved.

All actuators are factory fitted and tested to confirm good operation. Other than connection to pneumatic lines, no alteration to the actuator is required on site.

Please contact us for more information on pneumatic actuators with SF uPVC-VCDs.



Finish

White uPVC

Other colours available on request - Minimum order amounts will apply



Ordering codes

Example

1 - 400 x 400 - SF uPVC-VCD - Model A - Belimo LM24A-SR

Codes

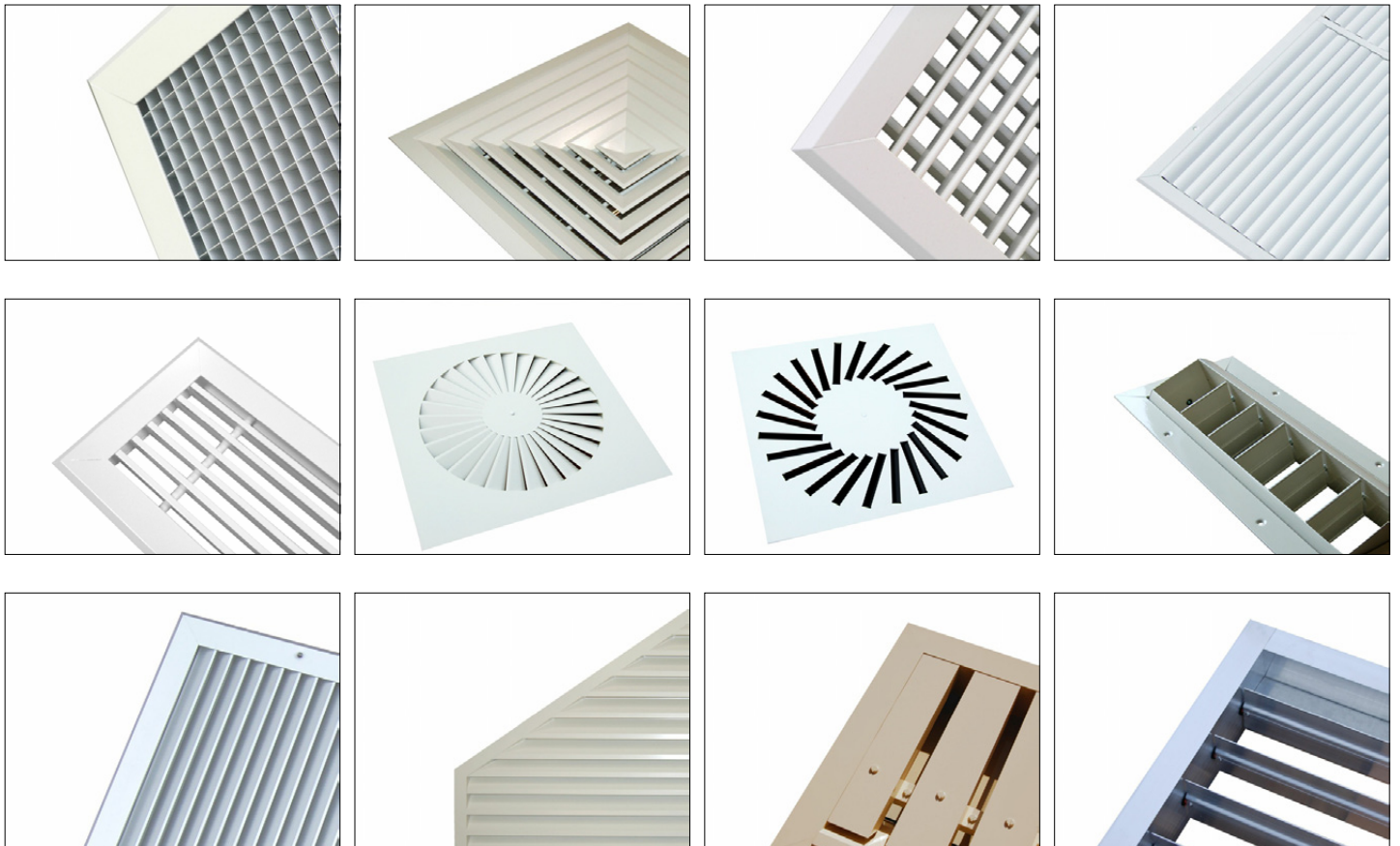
1)	Quantity		
2)	Size (mm)	(Width x height)	Nominal size
3)	Series	SF uPVC-VCD	Small format plastic volume control damper
4)	Model	Model A Model B Model C Model D	Square flanged Square spigotted Circular spigotted Flat oval spigotted
5)	Control	*nothing* EX LQ (Actuator)	Plastic handle Extended spindle Locking quadrant State actuator code When ordering a spring return actuator, please specify whether you require spring open or spring close operation.

HVC & NCA products

HVC offer the significant advantage of manufacturing both in duct and duct terminal equipment, making us a one stop shop for all your HVAC needs.

The products shown below are a selection, not an exhaustive list. Go to www.h-v-c.com for details on all HVC and NCA products.

HVC: Grilles, Diffusers, Louvres and Volume Control Dampers



NCA: Fire and Volume Control Dampers





Assessed to ISO 9001:2008
Cert/Ref No. 1186

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