

Advanced Air

SLIMLINE VOLUME CONTROL DAMPERS

1400 SERIES



Features

Airfoil section double skin
extruded aluminium
blades

Opposed blade operation

Blades fitted with
polypropylene end caps

Unsealed, sealed and semi-
sealed models

Manual, motorised and
bare shaft options

Positive, side mounted
drive linkage ensures
accurate airflow control

Sizes from 100 - 1000mm
and multi-module
assemblies

Manual operator includes
position indicator and
tamper proof lock

Flanged and spigoted
casing options

Fully tested for leakage,
sound and airflow
performance

Approvals

Quality Assured manufacture to BS EN ISO 9002

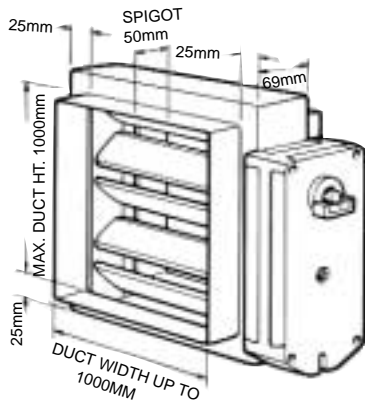
Casing leakage conforms to HVCA Specification
DW 144 Classes A-B for flanged models, Classes
A-C for spigoted models

Shock tested to DEF Standard 07-55



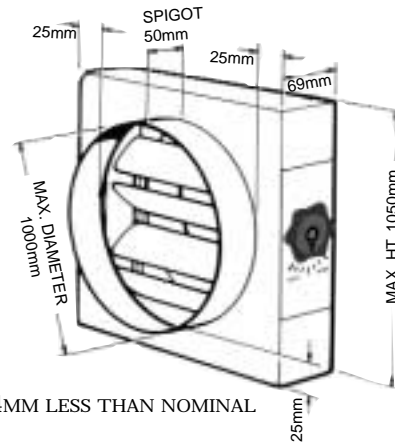
CASING OPTIONS

RECTANGULAR SPIGOT



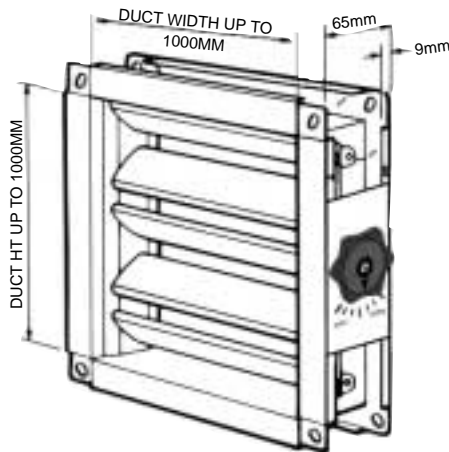
SPIGOT IS 4MM LESS THAN NOMINAL

CIRCULAR SPIGOT



SPIGOT IS 4MM LESS THAN NOMINAL

FLANGE



Flanged dampers may be ordered with 30mm or 35mm flanges to match the various proprietary flange systems available.

(A 25mm flange is available as a special option.)

30 / 35mm flange has 17mm x 11mm ob-round holes in corners.

(25mm flange has 11mm diameter fixing holes in corners.)

SEAL OPTIONS



Balancing Damper

Standard unsealed damper, with airfoil aluminium blade with end caps, suitable for most applications.

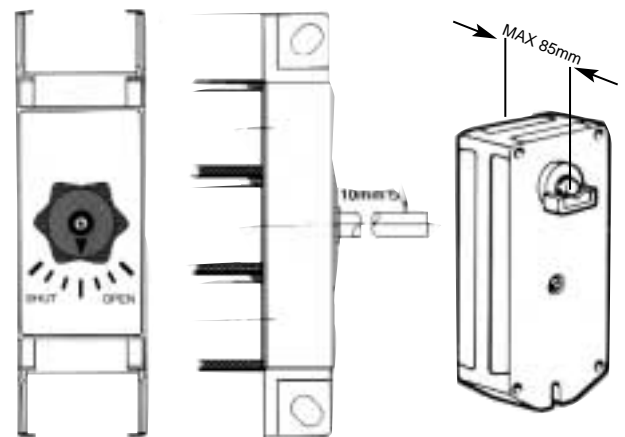


Semi-sealed

As balancing damper, with the addition of a spring stainless steel side seal between the blade and damper casing.

MANUAL SUIT MOTOR

(BARE SHAFT)

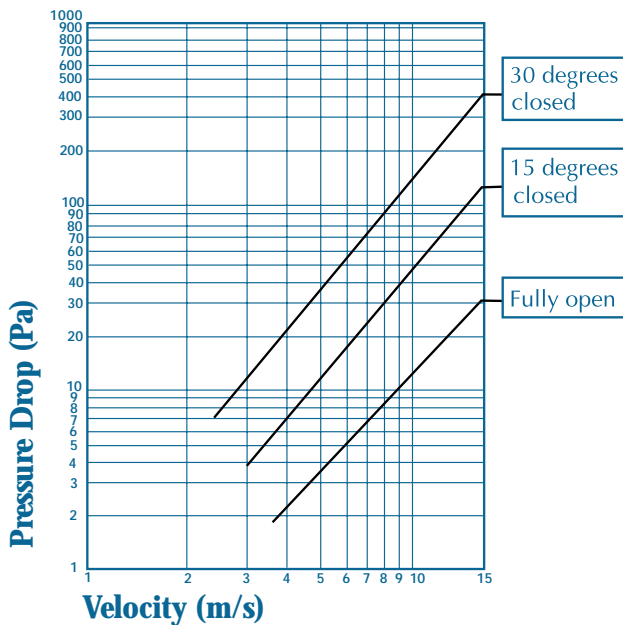


Also available with motor fitted

CONTROL OPTIONS

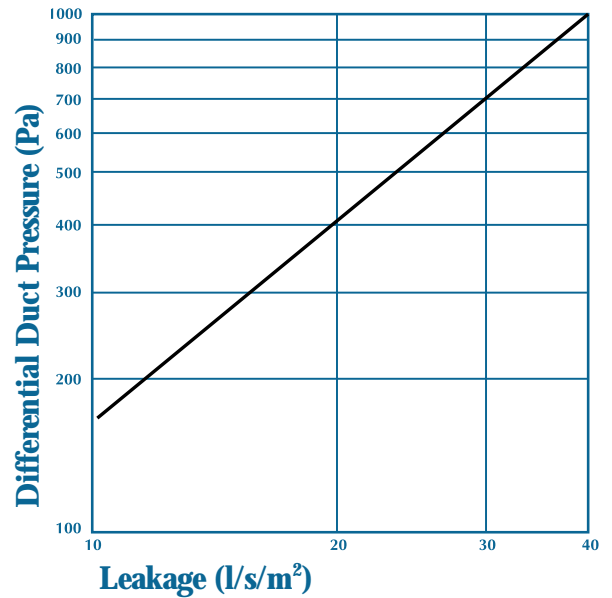
PERFORMANCE DATA

PRESSURE DROP



1. The data shown above is based upon results obtained for standard, semi-sealed and sealed units having a duct size of 300 x 300mm.
2. The pressure drop is measured across the blade system from flange to flange.
3. Maximum operating pressure is 1000Pa.
4. Maximum duct velocity is 15m/s.

BLADE LEAKAGE



The graph shown above indicates the loss of air through the blade system within the duct at various pressure differentials for the fully sealed damper.

SIZE RANGE

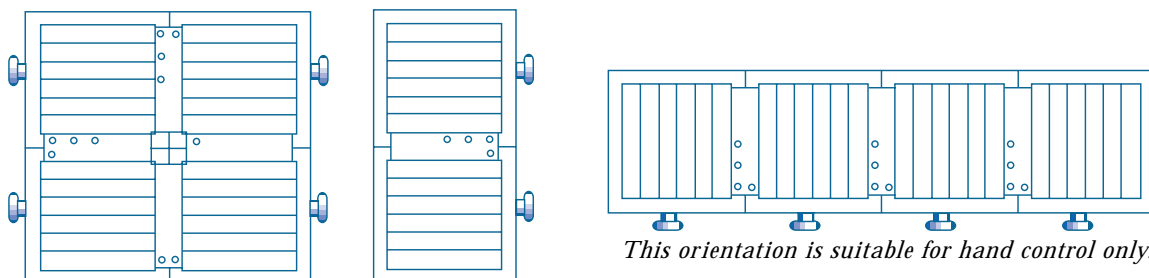
FLANGED UNITS Any **WIDTH** from 100mm to 1000mm.
Any **HEIGHT** up to 1000mm.

SPIGOTED UNITS Rectangular & circular spigots - Any size **WIDTH x HEIGHT** from 100mm to 1000mm
Flat oval spigots - any **WIDTH** from 200mm to 1000mm
- any **HEIGHT** from 100mm to 559mm
Sizes larger than above will be supplied as multiple assemblies.

MULTIPLE ASSEMBLIES

Dampers larger than 1000mm x 1000mm may be supplied as multiple assemblies, with one operator per section, to special order. Possible arrangements are shown below. (*Consideration should also be given to using the heavier duty Advanced Air 1000 Series control damper, for which the maximum single section is 1200 x 1800mm, and multiple sections on width can be interlinked*).

Multiple Assemblies are normally supplied in single sections, with mullion plates and mounting screws for site assembly.



MATERIAL AND SPECIFICATIONS

CASING	MANUFACTURED FROM GALVANISED MILD STEEL.
BLADES	EXTRUDED AIRFOIL PROFILE ALUMINIUM BLADES WITH POLYPROPYLENE END CAPS.
BLADE SEAL	COMPOSITE PVC MATERIAL TO AN AIRFOIL PROFILE.
BEARINGS	NYLON.
LINKAGE	ZINC PLATED STEEL AND IMPACT MODIFIED NYLON.
SPINDLES	IMPACT MODIFIED NYLON.
HANDLE	MOULDED HANDLE WITH POSITION INDICATOR.
TEMPERATURE	SUITABLE FOR USE UP TO 70°C - ALL MODELS.

TYPICAL ORDER DETAIL

PRODUCT CODING				
1 PRODUCT GROUP	2 MODEL	3 OPERATION	4 SEALS	5 SPIGOT / COLLAR
14	2. OPPOSED SPIGOT	1. SIDE LINKAGE RIGHT HAND DRIVE	0. FULLY SEALED	0. BASE (NONE)
	4. OPPOSED FLANGED -35MM		1. UNSEALED	1. CIRCULAR
	6. OPPOSED FLANGED -30MM		2. SEMI- SEALED (SIDE SEALS ONLY)	2. FLAT OVAL
	9. OPPOSED FLANGED -25MM			3. RECTANGULAR

NOTE: Additional specification is required regarding control options. Please specify either hand locking control, or bare shaft, or motorised version.

ASSOCIATED PRODUCTS

Other fully tested and approved product groups available include:

- ◆ SERIES 0100/0200 - CURTAIN FIRE DAMPERS
- ◆ SERIES 1000 - UNIVERSAL VOLUME CONTROL DAMPERS
- ◆ SERIES 1200 - FIRE/SMOKE CONTROL DAMPERS
- ◆ SERIES 2300 - 300°C SMOKE DAMPERS
- ◆ SERIES 2400 - INSULATED FIRE/SMOKE DAMPERS
- ◆ SERIES 6500 - LOUVRE FACED CEILING DIFFUSERS
- ◆ SERIES 0800 - DUCT ACCESS DOORS
- ◆ SYSTEM 21/41 - DAMPER CONTROL PANELS

The information contained in this publication is correct at the time of printing. Continuous product development means that from time to time product specifications and other information will change. The company therefore reserves the right to modify or withdraw any of the products described without prior notice



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