• VC Series  Volume Control Dampers
• SS Series  Slim Seal Dampers
• HD Series  Heavy Duty Dampers and HDLL Low Leakage Dampers
• BD Series  Backdraught Dampers

For full product details, please refer to individual product brochures

MANUFACTURERS OF AIR, FIRE AND SMOKE CONTROL PRODUCTS
**VC Series Volume Control Dampers**

**Information**
The VC Series Volume Control Damper has been designed to balance airflows in low to medium velocity H&V systems. Flanged models have mechanically fixed 65mm deep casings, providing a robust, lightweight construction.

**Testing**
Test conditions - Classes A, B & C of Eurovent 2/2 Table 1. DW144 2016 Edition and BS EN 1751 Table C.2. Normal operating conditions - not exceeding 1000Pa, Classes A & B of DW144 specifications will apply.

**Features**
- Galvanised mild steel casing as standard
- Stainless steel case options available
- Flanged and spigot case options
- Flanged galvanised option having Clinch corners
- 30mm flange detail as standard
- 50mm wide roll formed galvanised or stainless steel blades
- Spigot case options fully welded
- Clinch blade system minimise air turbulence and low generated noise
- Opposed blade action as standard with parallel action available on request
- Blade linkage located out of the airflow
- Nylon spindles running in extruded punch formed bearings
- Comprehensive control options
- Drive linkage system provides low friction blade operation
- Fitted side cover on drive side

**Sizes**
Sizing capability from 100mm to 1000mm in either width or height and from 100mm diameter to 1000mm diameter.

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**SS Series Slim Seal Dampers**

**Information**
The SS Series Control and Low Leakage Damper has been designed for installation into air conditioning and ventilation systems where air balancing and low closed blade leakage characteristics are called for in low to medium pressure and velocity systems. All models are suitable for DW144 pressure Classes A & B.

**Testing**
Test conditions - Classes A, B & C of Eurovent 2/2 Table 1. DW144 2016 Edition and BS EN 1751 Table C.2. Normal operating conditions - not exceeding 1000Pa, Classes A & B of DW144 specifications will apply.

**Features**
- Galvanised mild steel casing as standard
- Flanged option only
- 30mm flange detail as standard
- Standard blade construction is 50mm wide extruded aluminium with TPE material compound blade edge seal
- Opposed blade action as standard
- Blade linkage located out of the airflow
- Nylon spindles and bearings
- Comprehensive control options
- Drive linkage system provides low friction blade operation
- Fitted side covers

**Sizes**
Sizing capability from 100mm to 1000mm in either width or height.

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**BD Series Backdraught Dampers**

**Information**
The BD Series Back Draught Damper has been designed to allow airflow in one direction and prevent reverse airflow. The blades are self opening subject to air velocity. Blades are linked with a precise linkage, alleviating movement and subsequent rattling of individual blades.

**Testing**
Test conditions - Classes A, B & C of Eurovent 2/2 Table 1. DW144 2016 Edition and BS EN 1751 Table C.2. Normal operating conditions - not exceeding 1000Pa, Classes A & B of DW144 specifications will apply.

**Features**
- Galvanised mild steel casing as standard
- Flanged and spigot case options
- 30mm flange detail as standard
- Framefit model airflow options
- Extruded aluminium blades
- Blades are linked for uniform airflow
- Nylon blade bearings

**Sizes**
Sizing capability from 100mm to 600mm widths and 100mm to 1000mm height. And from 100mm diameter to 600mm diameter.

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www.bsb-dampers.co.uk
HD Series
Heavy Duty Dampers

Information
The HD Series Multi-Leaf Volume Control Damper has been specifically designed for installation in systems where high air pressures and velocities are experienced. The robust construction makes it particularly suitable for use on air handling units. Manual quadrant control, motor option or 19mm dia. extended spindle for actuation by others are available as standard. All models are suitable for DW144 pressure classes A, B & C.

Features
- Galvanised mild steel casing as standard
- Standard case construction meets Class C of DW144
- Stainless steel case options available
- Flanged and spigot case options
- 130mm deep case as standard on flange option
- 100mm blade pitch
- Aluminium, galvanised or stainless steel blade options
- Out of airflow linkage
- Side covers fitted as standard
- Variable flange dimensions and casing widths
- Comprehensive control options

Sizes
Sizing capability with a single drive, 100mm to 2400mm in width and from 100mm to 2000mm in height. 100mm diameter to 1400mm diameter.

* Galvanised and stainless steel blade options with dimensions in 100mm height multiples, please refer to main HD Series brochure.

HDLL Series
Low Leakage Dampers

Information
The HD-LL Series low leakage damper has been designed for installation in air conditioning and ventilation systems requiring air control and low closed blade leakage performance. Dampers are supplied with aluminium blades only utilising a single blade edge seal to the trailing edge.

Features
- Standard case construction is galvanised mild steel
- Size range 100mm to 1000mm in width or height in a single section
- Aluminium blade with trailing edge seal
- 100mm blade size
- Four casing options
- Blade seals manufactured from a TPE compound
- Out of airflow linkage
- Easy conversion from manual to motorised and vice versa
- Balance and control dampers
- Variable flange dimensions and casing widths
- Comprehensive control options

Sizes
Sizing capability with a single drive and where low closed blade leakage is required (HDLL models low leakage), the maximum size with a single drive will be 1000mm x 1000mm. 100mm diameter to 1000mm diameter.
Ordering Codes

**VC Series**
Volume Control Dampers

<table>
<thead>
<tr>
<th>VC</th>
<th>Flange-Fit</th>
<th>Rectangular/Square Spigot-Fit</th>
<th>Circular Spigot-Fit</th>
<th>Flat Oval Spigot-Fit</th>
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</thead>
<tbody>
<tr>
<td>Model:</td>
<td>F</td>
<td>S</td>
<td>C</td>
<td>O</td>
</tr>
</tbody>
</table>

**Blade Material:**
G Galvanised Steel Aerofoil Blades
S Stainless Steel Aerofoil Blades (state Grade)

**Control Options:**
E Extended Spindle
H Hand Control
M Electric Motor (state voltage and model)
For Pneumatic option, please refer to HD brochure

**BD Series**
Backdraught Dampers

<table>
<thead>
<tr>
<th>BD</th>
<th>Flange-Fit</th>
<th>Frame-Fit</th>
<th>Rectangular/Square Spigot-Fit</th>
<th>Circular Spigot-Fit</th>
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<tbody>
<tr>
<td>Model:</td>
<td>F</td>
<td>FF</td>
<td>R</td>
<td>C</td>
</tr>
</tbody>
</table>

**Blade Material:**
G Galvanised Mild Steel Aerofoil Blades
A Galvanised Steel Aerofoil Blades
G Galvanised Steel Aerofoil Blades
S Stainless Steel Aerofoil Blades (state Grade)

**Options:**
J Joint Seals

**HD Series**
Heavy Duty Dampers

<table>
<thead>
<tr>
<th>HD</th>
<th>Flange-Fit</th>
<th>Rectangular/Square Spigot-Fit</th>
<th>Circular Spigot-Fit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model:</td>
<td>F</td>
<td>S</td>
<td>C</td>
</tr>
</tbody>
</table>

**Blade Material:**
G Galvanised Mild Steel Aerofoil Blades
A Galvanised Steel Aerofoil Blades
G Galvanised Steel Aerofoil Blades
S Stainless Steel Aerofoil Blades (state Grade)

**Control Options:**
E Extended Spindle
H Hand Control
M Electric Motor (state voltage and model)
P Pneumatic Actuator Fitted

**SS Series**
Slim Seal Dampers

<table>
<thead>
<tr>
<th>SS</th>
<th>Flange-Fit 30mm</th>
<th>Flange-Fit 35mm</th>
<th>aluminium Aerofill Blades with Edge Seals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model:</td>
<td>F30</td>
<td>F35</td>
<td>A</td>
</tr>
</tbody>
</table>

**Control Options:**
E Extended Spindle
H Hand Control
M Electric Motor (state voltage and model)

**HDLL Series**
Low Leakage Dampers

<table>
<thead>
<tr>
<th>HD</th>
<th>Flange-Fit</th>
<th>rectangular/square Spigot-Fit</th>
<th>circular Spigot-Fit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model:</td>
<td>F</td>
<td>S</td>
<td>C</td>
</tr>
</tbody>
</table>

**Blade Material:**
G Galvanised Steel Aerofoil Low Leakage Blades

**Control Options:**
E Extended Spindle
H Hand Control
M Electric Motor (state voltage and model)
P Pneumatic Actuator Fitted

Fire and Smoke Control Products in the BSB Range:

**A60 Series**
Marine Fire Dampers

**FSD-C Series**
Circular Fire/Smoke Dampers

**FSD-TD Series**
Fire and Smoke Dampers

**FD Series**
Fire Dampers

**FD-C Series**
Circular Fire Dampers

**Control Systems**

For full details of the complete BSB Product Range, please refer to our individual product brochures, sales office or website.