

## NON RETURN DAMPER B RANGE

### Description:

- B100 – Low velocity (0 – 5m/s)
- B200 – Medium velocity (5 – 15m/s)
- B100-PVC – Low velocity (0 – 5m/s) Corrosive resistant
- B200-PVC – Medium velocity (5 – 15m/s) Corrosive resistant



### Applications:

- Multi-leaf non-return dampers primarily used as air operated opening or closing dampers for intake, discharge and pressure relief vents in air conditioning systems
- Non-return dampers on fan discharge
- Suitable for use within systems from low to high velocity
- B100-PVC and B200-PVC suitable for use in corrosive atmospheres such as swimming pools fume cupboards, water treatment plants, etc

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### Features:

- High strength channel casing
- Large range of material options including, Galvanised, Stainless steel and PVC, to suit customer's requirements
- Maintenance free PTFE or oilite bushes
- Encased bearings
- Large single modules and multi-damper assemblies
- Flanged and spigot casings

### Construction:

- Casing – Galvanised mild steel (B100 & B200) – Extruded PVC double skin case (B100-PVC & B200-PVC)
- Depth – 150mm with 40mm flanges (B100 & B200) – 160mm with 50mm flanges (B100-PVC & B200-PVC)
- Blades – Aluminium (B100 & B200) – PVC (B100-PVC) – 316 grade stainless steel (B200-PVC)
- Bushes – Oilite or PTFE

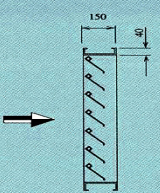
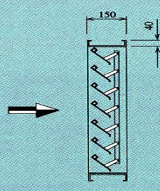
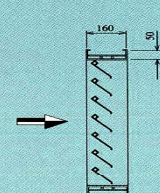
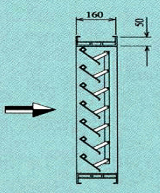
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### Damper Construction

	SIZE RANGE	OPERATING CONDITIONS	SPECIFICATIONS
<b>B100</b> 	100 - 1000mm W 150 - 2400mm H	0-5m/s -10 to 100°C	<b>Description:</b> Low velocity non-return back draught damper. <b>Construction:</b> <b>Casing-</b> 1.2mm thick galvanised mild steel or s/s <b>Depth</b> 150mm, 40mm flange. <b>Blades-</b> 1.2mm thick galv, alu or s/s at 100mm centres <b>Bushes-</b> Oilite or PTFE
<b>B200</b> 	100 - 1000mm W 150 - 2400mm H	5-15m/s -10 to 100°C	<b>Description:</b> Medium velocity non-return damper. <b>Construction:</b> <b>Casing-</b> 1.2 mm thick galvanised mild steel or s/s <b>Depth</b> 150mm, 40mm flange. <b>Blades-</b> 1.2mm thick galv, alu or s/s at 100mm centres. All blades linked internally. <b>Bushes-</b> Oilite or PTFE
<b>B100-PVC</b> 	100 - 1000mm W 150 - 2400mm H	0-5m/s -10 to 40°C	<b>Description:</b> Low velocity corrosive resistant non-return damper. <b>Construction:</b> <b>Casing-</b> 6.0mm thick extruded PVC double skin case. <b>Depth-</b> 160mm, 50mm flange. <b>Blades-</b> 3.0mm thick PVC at 100mm centres. <b>Bushes-</b> Oilite, PTFE or Nylon
<b>B200-PVC</b> 	100 - 1000mm W 150 - 2400mm H	5-15m/s -10 to 40°C	<b>Description:</b> Medium velocity corrosive resistant non-return damper <b>Construction:</b> <b>Casing-</b> 6.0mm thick extruded PVC double skin case. <b>Depth-</b> 160mm, 50mm flange. <b>Blades-</b> 1.2mm thick 316 stainless steel blade at 100mm centres. All blades linked internally. <b>Bushes</b> - Oilite or PTFE

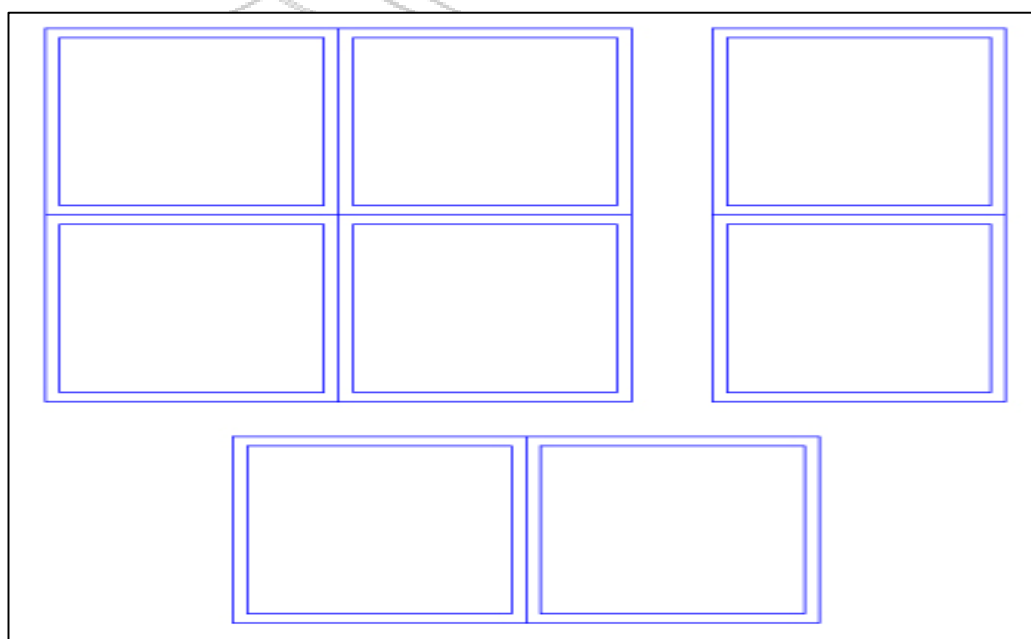
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We reserve the right to make specification changes without prior notice or obligation

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### Multi Damper Assemblies



#### Options:

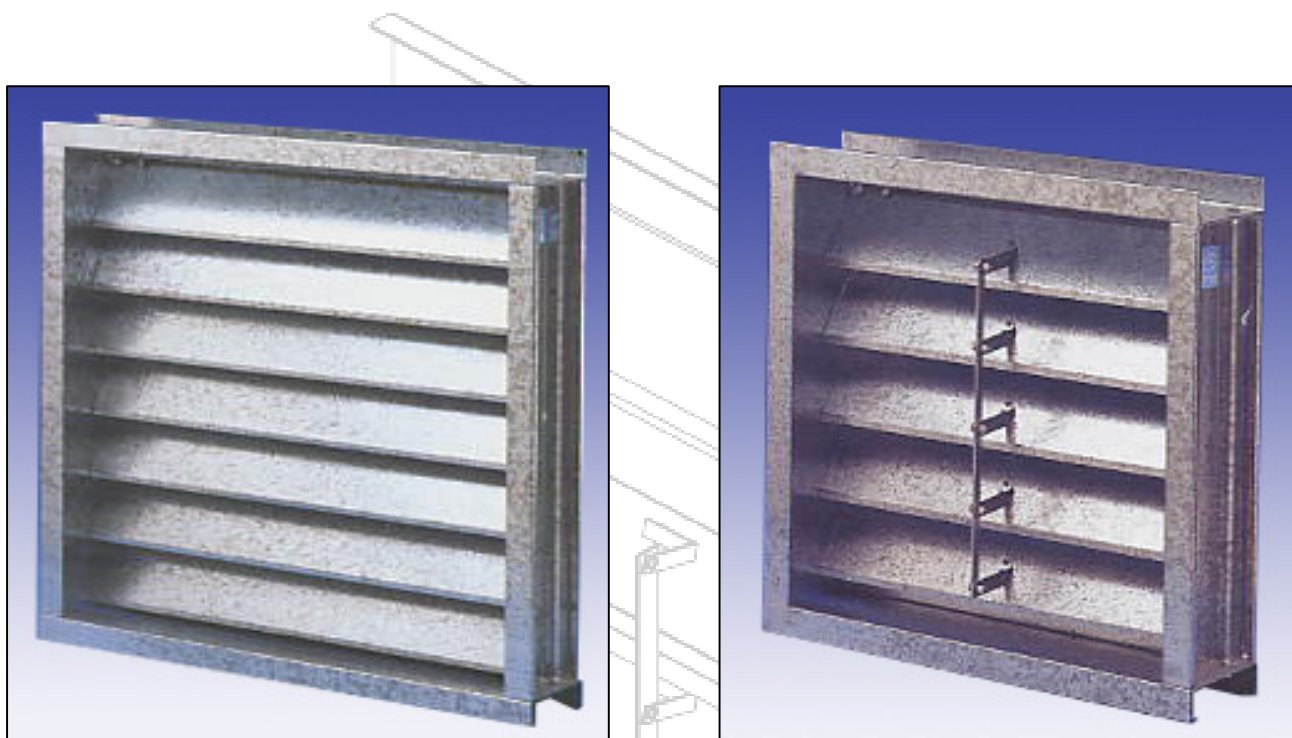
- Paint finish to customer requirements
- High temperature units
- GRP cladding to PVC units
- Casing profiles to meet customer requirements
- Stainless steel, aluminium and galvanised options available
- Low leakage units
- High velocity

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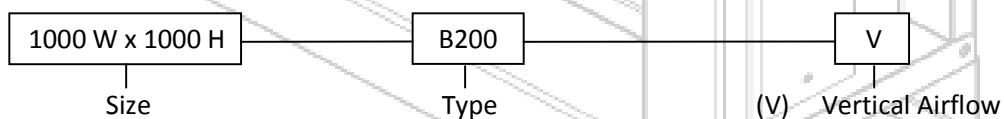
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### ORDERING

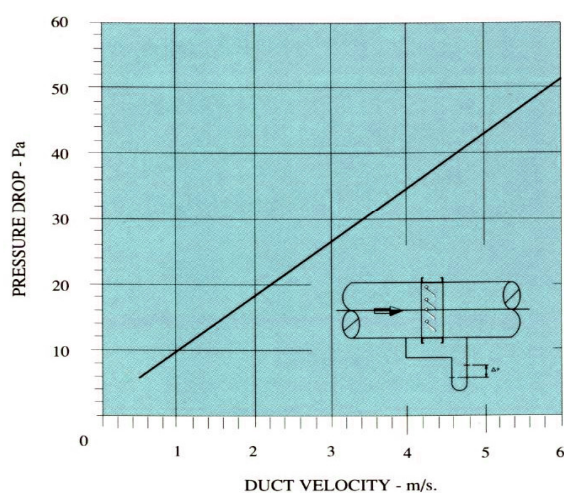


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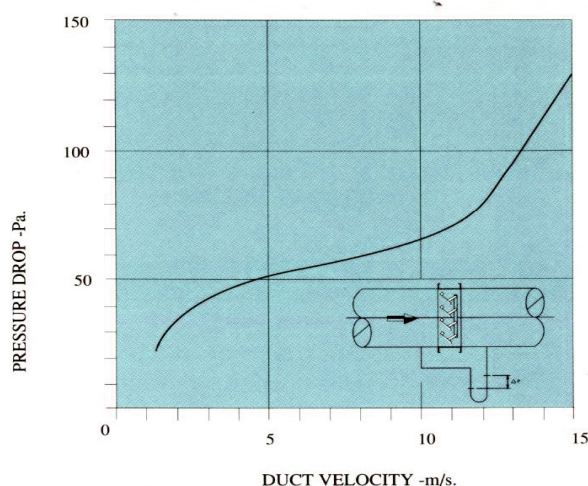


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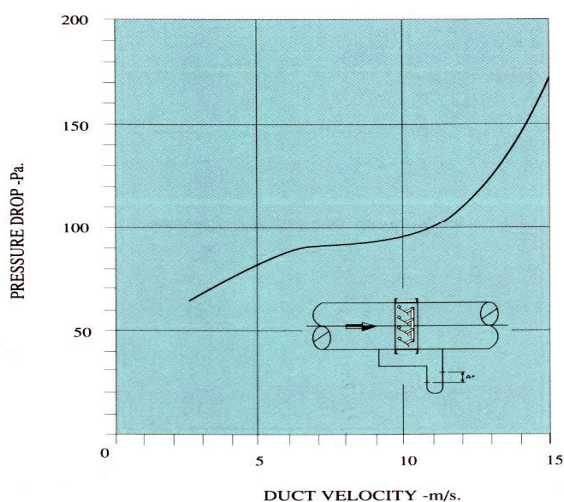
**Figure 1 Velocity vs. Pressure Drop**  
TYPE B100 & B100-PVC (PVC Blades)



**Figure 2 Velocity vs. Pressure Drop**  
TYPE B200 Galv or Stainless Steel Blades



**Figure 3 Velocity vs. Pressure Drop**  
TYPE B200-PVC Stainless Steel Blades



**Figure 4 Blade Leakage vs. Pressure Differential**  
'B' RANGE All Blade Types

