APPLICATION

Ruskin “OW” dampers are designed to be installed with the blades out of the wall or floor and shall be supplied with a factory insulated sleeve. Models DIBD2/OW and DIBD2SS/OW may be installed with the blades up to 8” (203) out of the wall/floor and angles on one side.

DYNAMIC CLOSURE RATINGS

4000 fpm (20.3 m/s) vertical mount only, up to 24” x 24” (610 x 610).
3000 fpm (15.2 m/s) vertical and horizontal mount, up to 24” x 24” (610 x 610).
2000 fpm (10.2 m/s) vertical or horizontal mount on all sizes. 4 in. w.g. (1kPa) maximum pressure on all sizes.

STANDARD CONSTRUCTION

FRAME
20 gage (.91) steel channel.

BLADES
24 gage (.61) curtain type.

SLEEVE
Damper includes a minimum 14” (356) x 18 gage (1.2) sleeve.

CLOSURE SPRINGS (if required)
301 stainless steel constant force type or spring clip type.

FUSIBLE LINK
165°F (74°C) is standard. 212°F (100°C) and 285°F (141°C) available.

DAMPER SIZES

MINIMUM SIZE
Style A – Vertical Installation - 4”w x 4”h (102 x 102).
Style A – Horizontal Installation - 6”w x 6”h (152 x 152).

MAXIMUM SIZE
Style A – Vertical or Horizontal Installation - 36”w x 36”h (914 x 914).

OPTIONS

• FM Approvals as Specification Tested Product.
• Switch package to remotely indicate damper blade position.
• GA = Grille Access Type for “out of the wall or floor” grille applications.
• Sleeve of various lengths and gages to insure field compliance with UL installation requirements.
• 304 Stainless Steel construction.

NOTES:

1. Dimensions shown in parentheses ( ) indicate millimeters
2. Unit furnished approximately 1/4” (6) smaller than given opening dimensions.
DAMPER SLEEVE DIMENSIONAL DATA

The drawings show the position of the damper mounted in the factory sleeve. The standard location permits the damper to be installed outside the plane of the wall or floor. For damper styles WR, WC, WO and BC only the duct connection portion extends through the wall and the damper assembly is mounted flush with the wall.

SLEEVE LENGTH FORMULA: STYLE A
To determine correct sleeve length necessary: Add wall or floor depth + 7 1/2" (191) + 3 1/2" (89).
Example: Wall depth 4" (102) + 7 1/2" (191) + 3 1/2" (89) = 15" (381)

SLEEVE LENGTH FORMULA: STYLE BC, WR, WC & WO
To determine correct sleeve length necessary: Add wall or floor depth + 9 1/2" (241) + 3 1/2" (89).
Example: Wall depth 4" (102) + 9 1/2" (241) + 3 1/2" (89) = 17" (432)
(Note: For grille type installation with an “OW” damper, omit the 3 1/2" (89) sleeve extension.)

DAMPER DIMENSIONAL DATA

DUCT TRANSITION CONNECTIONS
DIBD2/OW and DIBD2SS/OW dampers may be supplied with Round, Oval and Rectangular duct connections.

<table>
<thead>
<tr>
<th>Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC</td>
<td>Units Under 6&quot; (152) Tall</td>
</tr>
<tr>
<td>WR</td>
<td>Round Welded (High Pressure)</td>
</tr>
<tr>
<td>WC</td>
<td>Rectangular Welded (High Pressure)</td>
</tr>
<tr>
<td>WO</td>
<td>Oval Welded (High Pressure)</td>
</tr>
</tbody>
</table>

See DIBD2 specification sheet for the over-all damper sizes on units with round, oval or rectangular transitions.

MINIMUM and MAXIMUM SIZES

WR Round Transitions
- Minimum 4" (102) diameter
- Maximum 34" (864) diameter – vertical mount
- Maximum 20" (508) diameter – horizontal mount

WO Rectangular and Oval Transitions
- Minimum 4" x 4" (102 x 102)
- Maximum 34" x 31" (864 x 787) – vertical mount
- Maximum 22" x 20" (559 x 508) – horizontal mount

‘BC’ Style Transitions
- Minimum 4" x 4" (102 x 102)
- Maximum 34" x 32" (864 x 813) – vertical mount
- Maximum 22" x 21" (559 x 533) – horizontal mount

Consult Ruskin for other available styles and sizes.