MODEL FD-110-3V
MULTI-BLADE FIRE DAMPER
U.L. 555 CLASSIFIED 1-1/2 AND 3 HOURS
FOR USE IN STATIC SYSTEMS

Application and Design
The Model FD-110-3V is UL Classified for installation in walls, floors, and partitions with a fire rating of less than 3 hours. This damper may be installed horizontally or vertically in static systems that shut down in the event of fire. (See optional 3 hr rating)

Standard Construction
Frame: 5" Roll formed Frame - Galvanized Steel hat-section
W/ staked corners & integral bracing
Blades: 16 Ga. Roll formed - Galvanized Steel
min. width: 4-1/4" (108mm)
max. width: 7-1/4" (184mm)
Axles: square plated steel
Linkage: Concealed in frame. Linkage bars are 1/8" (3.2mm)
Bearings: Bronze Oilite press-fit into frame
Closure Spring: Stainless Steel
Fusible Link - UL-33: UL Listed 165°F (Standard), 212°F (Optional)
Manual Locking Quadrant - (may be required for inspection)

Model FD-110-3V meets or complies with the following as a fire damper:
All major building codes, including IBC/ICC International Code
UL 555 Listing 1-1/2 and 3 Hour - File #R25410
ULC S112
NFPA - 90A,
+ Note: Non-sleeved (with side plate) dampers are furnished Approx. 1/4" (6.4mm) smaller than given duct dimensions. Sleeved dampers are furnished Approx. the same size as given duct dimension, unless otherwise noted.

Multi-Section, EFL, OR PFV Options will require actuators to be installed on the damper.

Standard Sizes (duct) 1-1/2 HR.

<table>
<thead>
<tr>
<th>Min. V or H</th>
<th>*Max. Vertical Size</th>
<th>*Max. Horizontal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>6” X 6”</td>
<td>108”W X 96”H</td>
<td>72”W X 48”H</td>
</tr>
<tr>
<td>152mm X 152mm</td>
<td>2743mm X 2438mm</td>
<td>1828mm X 1219mm</td>
</tr>
</tbody>
</table>

* May consist of multi-sections

Standard Sizes (duct) 3 HR.

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Options:
- Factory Sleeve: ______ Ga (18 Ga min.)
- Sleeve Length: ______ Inches
- Retaining Angles: ______ Inches
- 3 Hour Rating
- Round Transitions (FD-110-3V Round)
- Out of Wall Const. Available (See dwg. A-36 inst.)
- EFL (Electric Fusible Link)*
- PFV (Pneumatic Fusible Valve)*

*Option provides quick and economical way to check damper operations and also provide a Systematic Closure Control. Option PFV allow damper operation without the need/cost for an EP valve and electrical connection at the damper.

Mounting:
- Horizontal
- Vertical

*Note: Non-sleeved (with side plate) dampers are furnished Approx. 1/4" (6.4mm) smaller than given duct dimensions. Sleeved dampers are furnished Approx. the same size as given duct dimension, unless otherwise noted.
PERFORMANCE DATA

Pressure drop testing was done by an independent laboratory to AMCA Standard 500-D, Fig. 5.3 ductwork upstream & downstream.