



MODEL FD-160-AF
MULTI-BLADE CURTAIN FIRE DAMPER
U.L. 555 CLASSIFIED 1-1/2 AND 3 HOURS
FOR USE IN STATIC SYSTEMS

Application and Design

The Model FD-160-AF 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 HVAC systems that shut down in the event of fire.

Standard Construction

Frame: 5" Roll formed Frame - Galvanized Steel hat-section W/ staked corners & integral bracing

Blades: Airfoil-shaped roll-formed- Double Skin Galvanized Steel min. width: 5" (127mm) max. width: 7" (178mm)

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

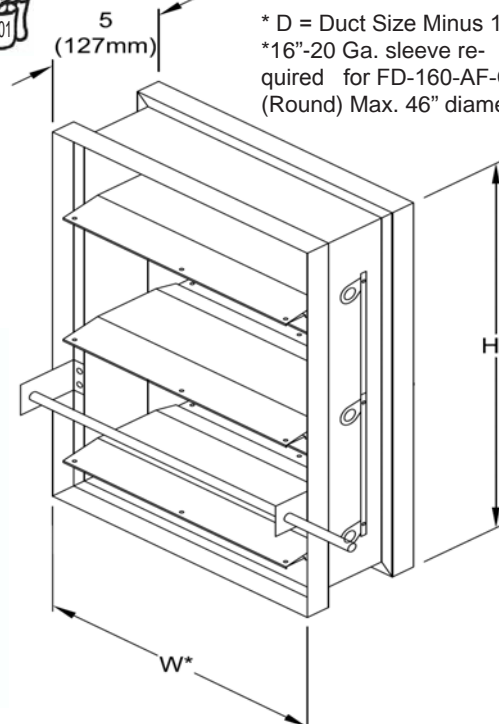
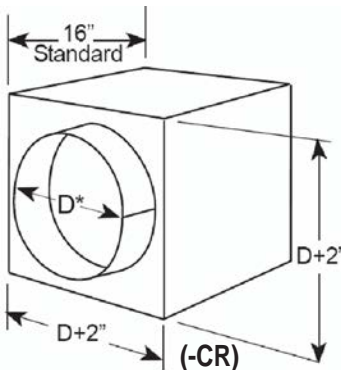
Fusible Link - UL-33: UL Listed 165°F (Standard), 212°F (Optional)

Manual Locking Quadrant - (may be required for inspection)

Maximum Velocity: 2000 fpm (10.2 m/s) on all sizes

Maximum Pressure: 4" wg (1kPa) Consult Factory For Velocities up to 4000 FPM and 6.0" w.g.

Model FD-160-AF 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, 80



\* D = Duct Size Minus 1/4"
\*16"-20 Ga. sleeve required for FD-160-AF-CR (Round) Max. 46" diameter

\*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.

Options:

- Factory Sleeve: Ga (18 Ga min.)
Sleeve Length: Inches
Retaining Angles
3 Hour Rating
Round Transitions (FD-160-AF Round)
Out of Wall Const. Available (See dwg. A-36 inst.)
EFL (Electric Fusible Link)\*
PFV (Pneumatic Fusible Valve)\*
250° - 350° (Actuator Req.)

Mounting:

- Horizontal
Vertical

Table with 3 columns: Min. V or H, \*Max. Vertical Size, \*Max. Horizontal Size. Rows for 8" X 8" and 203mm X 203mm.

\* May consist of multi-sections

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+ 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.

Job Name:
Location:
Architect:
Engineer:
Contractor:

- MODEL FD-160-AF
MODEL FD-160-AF-OW (Out of Wall)
MODEL FD-160-AF-CR (Round)

Table with 3 columns: DRAWN BY, DATE, REV. DATE, REV. NO., APPROVED BY, DWG. NO. Values: MAB, 11-06-07, 10-24-08, 6, SDC, A-29

## PERFORMANCE DATA

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

