



MODEL FDD-110-3V

MULTI-BLADE FIRE DAMPER

U.L. 555 CLASSIFIED 1-1/2 AND 3 HOURS
FOR USE IN DYNAMIC OR STATIC SYSTEMS

Application and Design

The Model FDD-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 dynamic HVAC systems that continue to operate in the event of fire. Also approved for static systems.

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)

Maximum Velocity: 2000 FPM (10.2 M/S)

Maximum Pressure: 4" WG (1KPA)

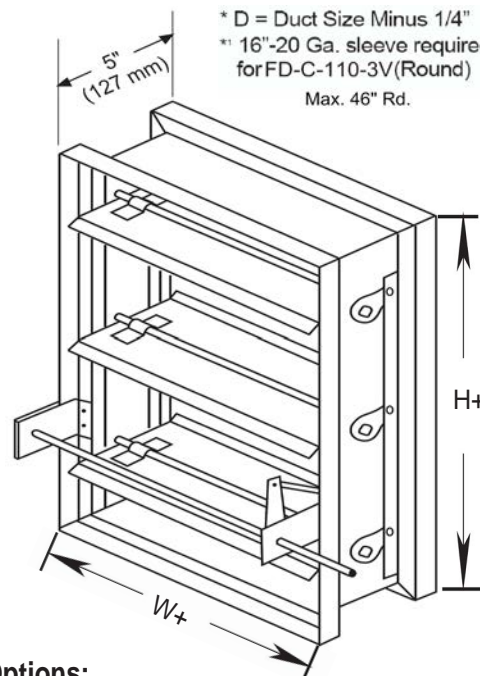
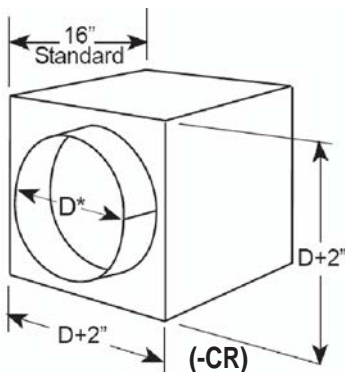
Model FDD-110-3V meets or complies with the following as a fire damper:

All major building codes,
including IBC/ICC International Code
UL 555 Listing 1-1/2 and 3 Hour - File #R25410

ULC S112

NFPA - 90A, 80

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



* D = Duct Size Minus 1/4"
* 16"-20 Ga. sleeve required for FD-C-110-3V(Round)
Max. 46" Rd.

Options:

- Factory Sleeve: _____ Ga (18 Ga min.)
- Sleeve Length: _____ Inches
- Retaining Angles
- 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)*
- 250° - 350° (Actuator Req.)
- Mounting:
 - Horizontal
 - Vertical

Note: Due to continuing research, UE reserves the right to change specifications without notice.

*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.

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

Min. V or H	*Max. Vertical Size	*Max. Horizontal Size
6" X 6" 152mm X 152mm	108"W X 96"H 2743mm X 2438mm	72"W X 48"H 1828mm X 1219mm

* May consist of multi-sections

+ 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.

Standard Sizes (duct) 3 HR.

Min. V or H	*Max. Vertical or Horizontal Size
6" X 6" 203mm X 203mm	72"W X 48"H 1828mm X 1219mm

* May consist of multi-sections

Job Name:

Location:

Architect:

Engineer:

Contractor:

- MODEL FDD-110-3V
- MODEL FDD-110-3V-OW (Out of Wall)
- MODEL FDD-110-3V-CR (Round)

DRAWN BY:
MAB

DATE:
11-07-07

REV. DATE:
09-19-08

REV. NO.
5

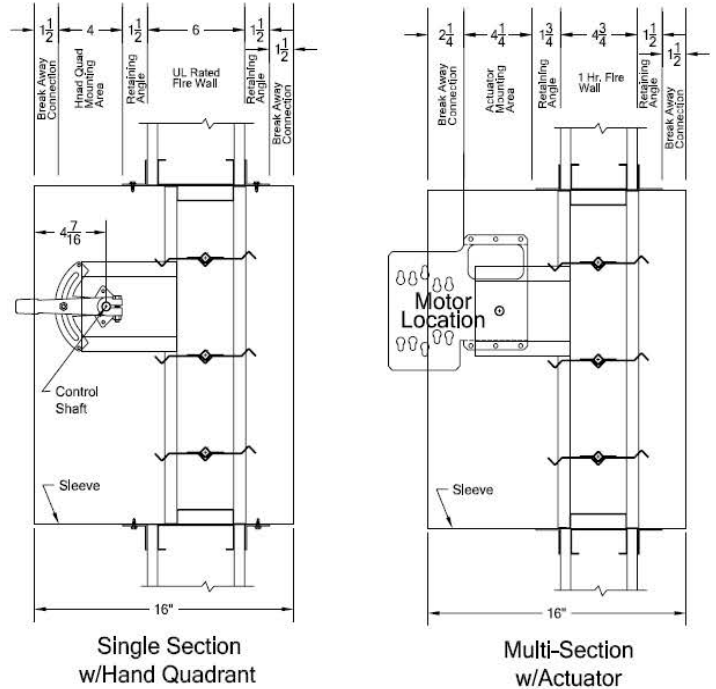
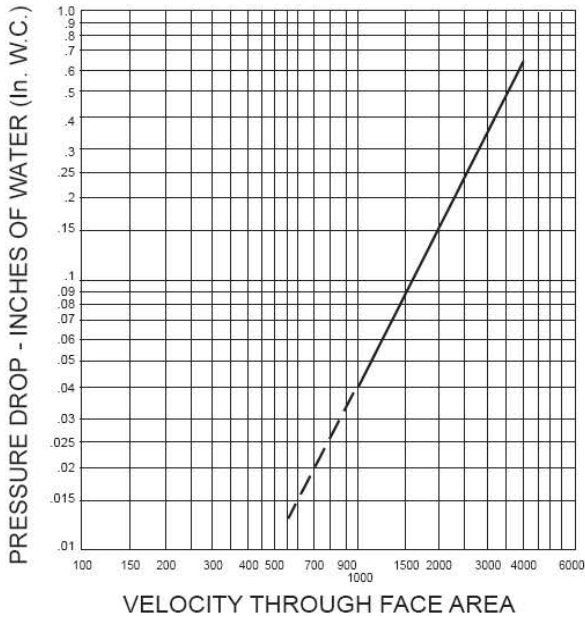
APPROVED BY:
SDC

DWG. NO.:
A-30

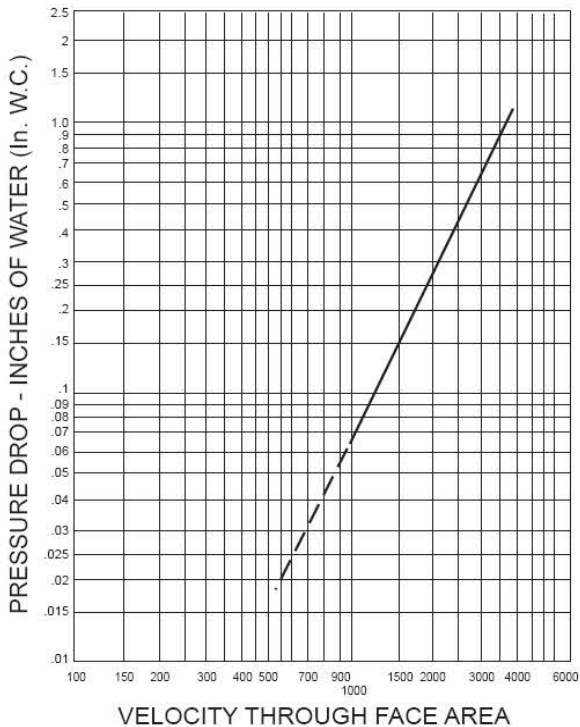
PERFORMANCE DATA

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

DAMPER SIZE 36 x 36



DAMPER SIZE 24 x 24



DAMPER SIZE 12 X 12

