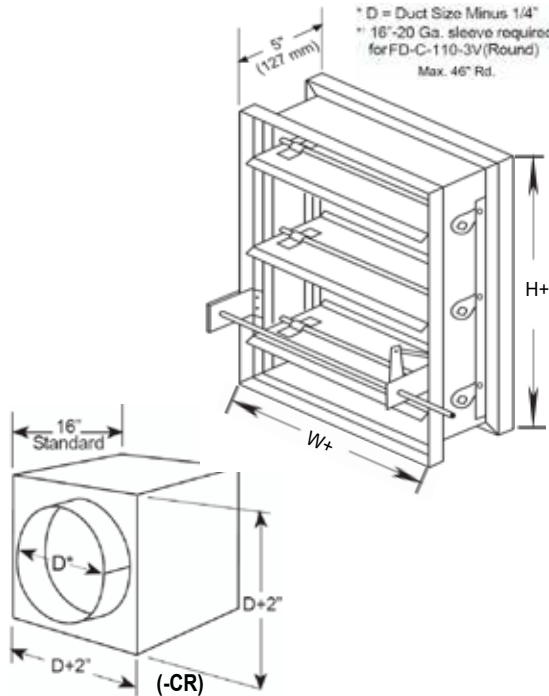




## Model FDD-110-3V Multi-Blade Fire Damper

UL 555 Classified 1-1/2 and 3 hours for use in dynamic or static systems



### Application

- 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 - 20 ga. 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 Classified 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)
- Non-sleeved (with side plate) dampers are furnished approximately 1/4" (6.4mm) smaller than given duct dimensions. Sleeved dampers are furnished approximately the same size as given duct dimension, unless otherwise noted.

### Options

- Factory Sleeve (18 Ga min.)
- Retaining Angles
- 3 Hour Rating
- Round Transitions (FD-110-3V Round)
- Out of Wall Const. Available (See dwg. P-36 inst.)
- EFL (Electric Fusible Link)\*
- PFV (Pneumatic Fusible Valve)\*
- Multi-Section, EFL, OR PFV Options will require actuators to be installed on the damper.
- 250° - 350° (Actuator Req.)
- Mounting
  - Horizontal
  - Vertical

\*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.

Due to continuing research, MAT reserves the right to change specifications without notice.

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 Classified 1-1/2 and 3 Hour - File #R27198
- NFPA - 90A, 80

### Sizes (duct) 1-1/2 Hour

<b>Min. V or H</b>	6" X 6", 152mm X 152mm
<b>*Max. Vertical</b>	108"W X 96"H, 2743mm X 2438mm
<b>*Max. Horizontal</b>	72"W X 48"H, 1828mm X 1219mm

### Sizes (duct) 3 Hour

<b>Min. V or H</b>	6" X 6", 152mm X 152mm
<b>*Max. Vertical or Horizontal</b>	72"W X 48"H, 1828mm X 1219mm
<b>*May consist of multi-sections</b>	

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

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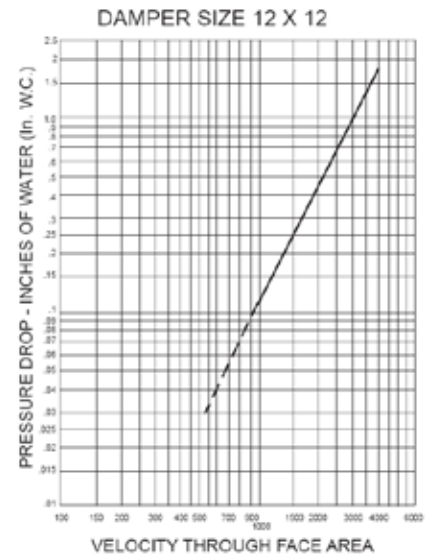
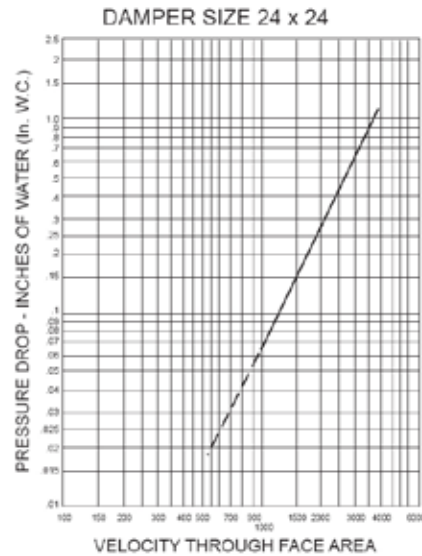
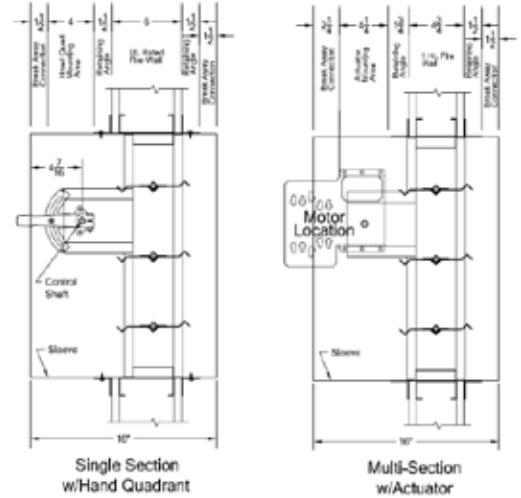
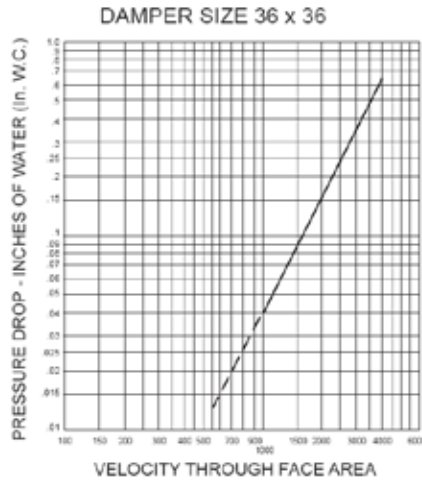


## Model FDD-110-3V Multi-Blade Dynamic Fire Damper

UL 555 Classified Vertical And Horizontal - 1-1/2 & 3 Hours

### PERFORMANCE DATA

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



### FDD-110-3V

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