Reference:	Client:
Project:	Consultant:
Location:	Contractor:
Date:	Submitted by:

**Optional** 

Airfoil Galv. Steel (see Model FD-MB-AF-FA)

----

\_\_\_\_

Actual

\_\_\_\_

Wide variety of gauges

and lengths available

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**UL Listed Fusible Link** 

212°F (100°C)

Motorised [see Model

FD-MB-3V-FA (M)]

3 Hour

The CVS-SAFE4 model FD-MB-3V-FA is a multi-blade fire damper with 3V style

blades intended for installation outside the plane of a wall or floor with front (or

FD-MB-3V-FA can be installed vertically (with blades running horizontally) or

Standard

20 Gauge (1) Galv. Roll-Formed Steel hat section

w/ staked corners for

integral bracing

16 Gauge (1.5) "3V" Galv.

Roll-Formed Steel

Min. width of 4.25" (108) to

max. width of 7.25" (184)

5" (127)

Actual - 1/4" (6)

Bronze Oilite (press fit into

frame)

Plated Steel

.125" (3.2) plated steel.

Concealed in Frame

16" x 20 gauge (406x1)

galvanized steel

0.25" (6) thick thermal

blanket 3 sides for vertical

and 4 sides for horizontal

applications

Max. 6 inch. (152.4 mm),

installed inside damper sleeve

to conceal quadrant.

**UL Listed Fusible Link** 

165°F (74°C)

Manual Quadrant

1-1/2 Hour

grille) access to the quadrant. The FD-MB-3V-FA is used to prevent the spread of fire through a penetration in a fire rated barrier made by an HVAC duct or transfer. The

horizontally. The FD-MB-3V-FA can be installed in static systems (fans shut off in a



#### Model FD-MB-3V-FA

Manual Quadrant, Multi-Blade Static Fire Damper Front Access & Out-of-Wall/Floor Application 1-1/2 or 3 Hour, 3V Blade, UL-Classified

SEE COMPLETE MARKING ON PRODUCT



## LISTINGS:

**Optional Construction:** 

20 (1.0)

**Remote Control Box** 

1-Side

RCB-1

Length:\_

Gauge:

**Factory Installed Sleeve:** 

(Std. 16" [406])

Framed Retaining Angles (FRA)

2-Sides

RCB-2

18 (1.2)

RCB-3

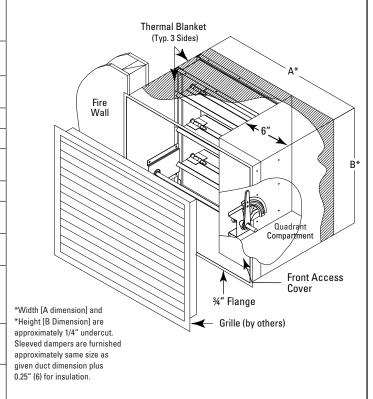
16 (1.5)

14 (2.0)

**UL 555 Listing**: R27700(UAE), R41135(KSA), R40068(Qatar), R41122(Egypt)

## STANDARDS MET:

NFPA Standards: 80, 90A, 92A, 92B and 101 Building Code Standard: ICC International Building Code



### Minimum & Maximum Sizes:

Application:

fire) only.

Standard Construction:

Frame Material

**Blade Material** 

and Type

**Blade Sizes** 

Frame Depth

**Dimensions** 

**Axle Bearings** 

**Axle Material** 

Linkage

Sleeve

Thermal Blanket

**Front Access Panel** 

Heat

**Responsive Device** 

**Blade Operator** 

**UL Hour Rating** 

Multi-Blade Model	Minimum Size		Max. Single Section	
	1.5 Hour	3 Hour	1.5 Hour	3 Hour
FD-MB-3V-FA (Vertical)	12×12 (305×305)		36x48 (914x1219)	
FD-MB-3V-FA (Horizontal)				

All dimensions shown in inches, parentheses () indicate millimeters.

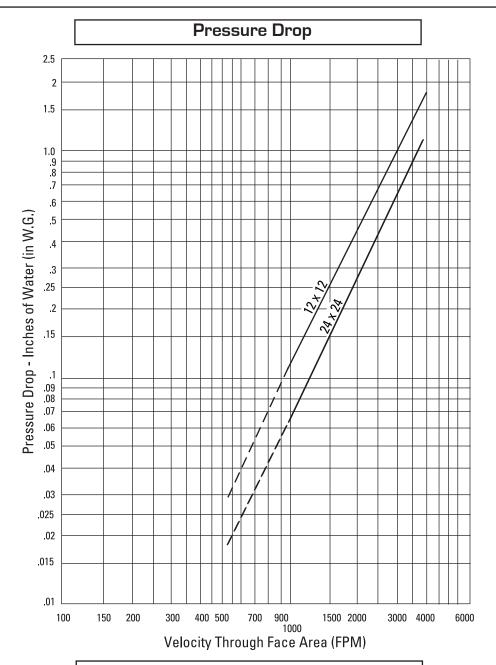
### **Consult CVS for Other Special Requirements.**

1 As part of our continuous improvement program, we reserve the right to make further improvements without notice.

Submittal

10 (3.5)

## PERFORMANCE DATA - Model FD-MB-3V-FA (Manual Quadrant) Fire Damper for Front Access/Out-of-Wall Applications

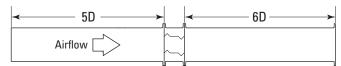


#### To determine pressure drop:

- 1. Locate the applicable face velocity on the bottom of the chart.
- **2.** Move up the chart to the most appropriate size damper line.
- 3. From the intersection point, move left to determine the pressure drop.

#### AMCA Figure 5.3 - Ducted Inlet and Outlet

Pressure drop testing was performed by an independent laboratory to the AMCA Standard 500-D, Fig. 5.3 (ductwork upstream and downstream).



#### Note:

Pressure Drop for both sizes reflect damper face area only, and does not takeinto account the 6" deep quadrant compartment.

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

Submittal



# QUADRANT & SLEEVES - Model FD-MB-3V-FA (Manual Quadrant) Fire Damper for Front Access/Out-of-Wall Applications

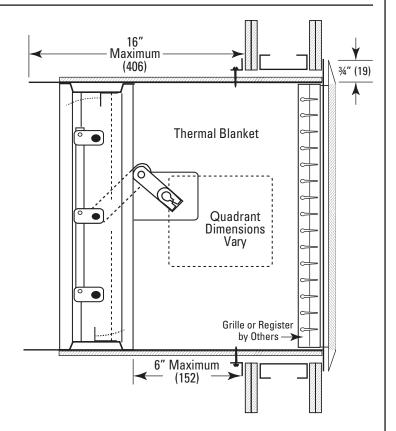
### Sleeve Requirements:

Sleeve must be installed at the factory for out of wall/floor products. As with all fire rated damper installations, the sleeve must fully penetrate the wall/floor being protected.

Sleeve length is dependent upon damper height, grille depth (including OBD) and quadrant selection:

- Standard clearance allowance for grille inset is 3" (76).
- Maximum sleeve length is 16"(406) plus the total wall depth.

Sleeve is provided with a ¾" (19) flange on the quadrant end of the sleeve by default. Flange must be on top of barrier in horizontal installations.



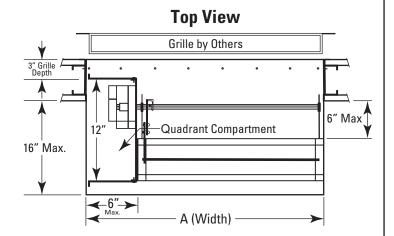
## Thermal Requirements:

A factory installed thermal blanket is provided on three sides (bottom excluded) for dampers ordered for vertical installation and on all four sides for dampers ordered for horizontal installation.

Due to the nature of the application for Out-of-Wall and Out-of-Floor Fire dampers, a 0.25" (6) thermal blanket is installed around the sleeve at the factory.

This insulation is required as part of the UL Listing of the out of wall/out of floor assembly and must not be removed.

Thermal Blanket provided 3 sides for Vertical and 4 sides for Horizontal.



As part of our continuous improvement program, we reserve the right to make further improvements without notice.