Reference:	Client:	
Project:	Consultant:	
		Manufacturing Excellence
Location:	Contractor:	Model SSD-3V-FA-202
Date:	Submitted by:	Smoke Damper
Date.		Front Access Application
		3V Blade, Class 2, UL-Classfied

#### Application:

The CVS-SAFE4 model SSD-3V-FA-202 is a smoke damper with 3V style blades intended for installation outside the plane of a wall or floor with front (or grille) access to the actuator. The SSD-3V-FA-202 is used to prevent the spread of smoke through a penetration in a smoke rated barrier made by an HVAC duct or transfer. The SSD-3V-FA-202 can be installed vertically (with blades running horizontally) or horizontally. The SSD-3V-FA-202 can be installed in static or dynamic systems up to the allowable tested pressures and velocities below.

MAXIMUM VELOCITY: 2000 fpm (10.2 m/s) on all sizes. MAXIMUM PRESSURE: 4" wg (1kPa) on all sizes.

#### Standard Construction:

	Standard	Optional	
Frame Material	20 Gauge (1) Galv. Roll- Formed Steel hat section w/ staked corners for integral bracing		
Blade Material and Type	16 Gauge (1.5) "3V" Galv. Airfoil Galv. Stee Roll-Formed Steel (see Model SSD-AF-F		
Blade Sizes	Min. width of 4.25" (108) to max. width of 7.25" (184)		
Frame Depth	5" (127)		
Dimensions	Actual - 1/4″ (6)	Actual	
Axle Bearings	Bronze Oilite (press fit into frame)		
Axle Material	Plated Steel		
Linkage	.125" (3.2) plated steel, Concealed in Frame		
Sleeve	16" x 20 gauge (406x1) galvanized steel	Wide variety of gauges and lengths available	
Thermal Blanket		0.25" (6) thick thermal blanket 3 sides for vertical and 4 sides for horizontal applications	
Front Access Panel	Max. 6 inch. (152.4 mm), installed inside damper sleeve to conceal actuator.		
Operating Temp.	350° (177°C)		
Leakage Class Rating	Class 2	Class 1 (see Model SSD-3V-FA-201)	

## Minimum & Maximum Sizes:

Front Access Damper Model	Minimum Size	Maximum Size	
SSD-3V-FA-202	12 x 12	36 x 48	
Vertical	(305 x 305)¹	(914 x 1219)	

<sup>1</sup>Contact Factory for smaller sizes.

1

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

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



Fire Wall \*Width [A dimension] and Height [B Dimension] are approximately 1/4" undercut. Sleeved dampers are furnished approximately same size as given duct dimension plus 0.25" (6) for

## **Optional Construction:**

#### **Auxiliary Switch**

insulation.

Add to Actuator (recommended)				Add to Damper (STO/R)				
Momentary Test Switch								
Factory Sleeve:								
Length:	(Std. 16" [406])							
Gauge:	20 (1.0)	18 (1.:	2) 16 (1.5)	14 (2.0)	10 (3.5)			
Remote Control Box								
R	RCB-1 RCB-2 RCB-3							
Smoke Detector								
Factory Mounted Shipped Loose								
Actuators (Refer to UL Damper Actuator Reference Chart)								
Туре:	Electric: Mo	ectric: Model # Pneumatic: Model #						
Location:	Internal	(Std.)						



B\*

Actuator

34" Flange

-Grille (by others)

Compartment

Front Access Cover

(Class II is < 20 cfm per sq. ft. @ 4" w.g.)

Thermal Blanket (Optional) (Tvp. 3 Sides)

LISTINGS: UL Listing: R27700(UAE), R41135(KSA),

SEE COMPLETE MARKING ON PRODUCT

R40068(Qatar), R41122(Egypt)

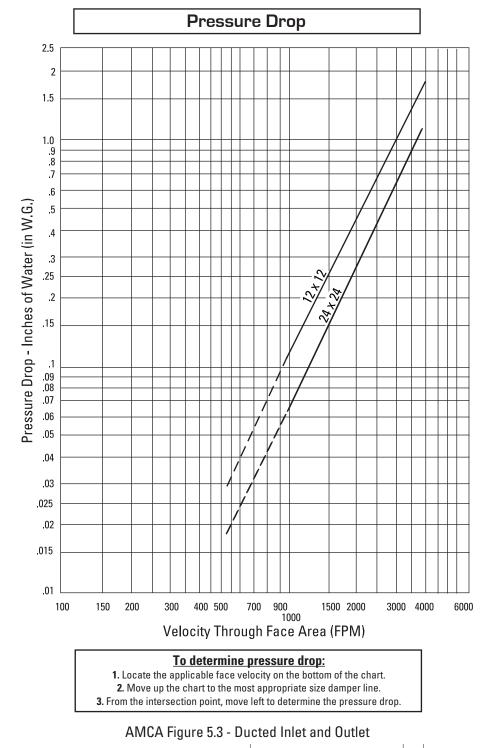
### **STANDARDS MET:**

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

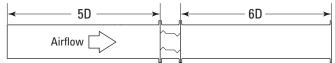
Central Ventilation Systems | www.cvshvac.com



## PERFORMANCE DATA - Model SSD-3V-FA-202 - Smoke Damper for Front Access Applications



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 actuator compartment.

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



# ACTUATORS & SLEEVES - Model SSD-3V-FA-202 - Smoke Damper for Front Access Applications

## **Actuator Requirements:**

UL555S requires that all leakage rated dampers be provided with factory mounted actuators. Available actuators vary by dampersize and velocity, pressure and temperature ratings. Consult Motor/ Actuator sheet for UL Products for current offering.

## Sleeve Requirements:

Sleeve must be installed at the factory for front access products.

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

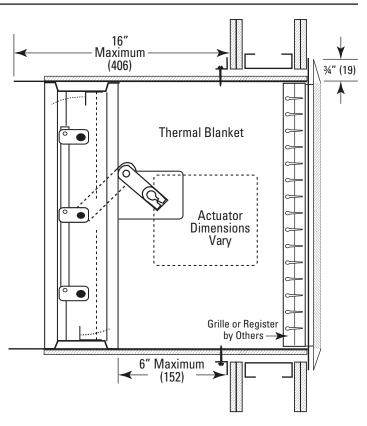
- Standard clearance allowance for grille inset is 3" (76).
- Maximum sleeve length is 16"(406) plus the total wall depth.

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

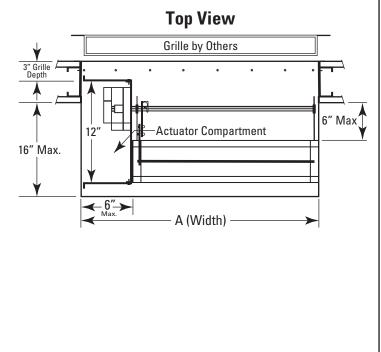
# Thermal Requirements (Optional):

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 Front Access Smoke dampers, a 0.25" (6) thermal blanket is installed around the sleeve at the factory.



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



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