Reference: Client:
Project: Consultant:
Location: Contractor:

The CVS-SAFE4 model SSD-3V-OW-202 is a smoke damper with 3V style blades

intended for installation outside the plane of a wall or floor. The SSD-3V-0W-202

is used to prevent smoke through a penetration in a smoke rated barrier made by

an HVAC duct or transfer. The SSD-3V-0W-202 can be installed vertically (with blades running horizontally) or horizontally. The SSD-3V-0W-202 can be installed

in static or dynamic systems up to the allowable tested pressures and velocities

**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)

Concealed in Frame

MAXIMUM VELOCITY: 2000 fpm (10.2 m/s) on all sizes.

MAXIMUM PRESSURE: 4" wg (1kPa) on all sizes.

Standard Construction:

Frame Material

**Blade Material** 

and Type

**Blade Sizes** 

**Frame Depth** 

**Dimensions** 

**Axle Bearings** 

Linkage

Submitted by:

Optional

Airfoil Galv. Steel

(see Model SSD-AF-OW-202)

----

Actual

----



## Model SSD-3V-OW-202

Smoke Damper Out-of-Wall/Floor Application 3V Blade, Class 2, UL-Classfied (Class II is < 20 cfm per sq. ft. @ 4" w.g.)



SEE COMPLETE MARKING ON PRODUCT



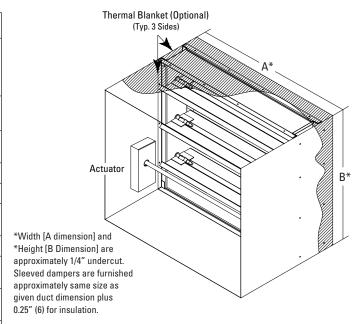
## **LISTINGS**:

**UL 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



## Axle Material Plated Steel .125" (3.2) plated steel,

Sleeve

16" x 20 gauge (406x1)
galvanized steel

O.25" (6) thick thermal
blanket 3 sides for vertical
and 4 sides for horizontal
applications

 Operating Temp.
 350° (177°C)
 ---- 

 Leakage Class Rating
 Class 2
 Class 1 (see Model SSD-3V-0W-201)

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

#### Minimum & Maximum Sizes:

Date:

below.

Application:

Out-of-Wall Mounting	Minimum Single Section	Maximum Single Section	Maximum Multi- Section
SSD-3V-0W-202 Vertical	6 x 6	36" x 48" (914 x 1219)	42" x 48" (1067 x 1219)
SSD-3V-0W-202 Horizontal			

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

### **Optional Construction:**

#### **Auxiliary Switch**

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)

#### Framed Retaining Angles (FRA)

1-Side 2-Sides

Remote Control Box

RCB-1 RCB-2 RCB-3

**Smoke Detector** 

Factory Mounted Shipped Loose

Actuators (Refer to UL Damper Actuator Reference Chart)

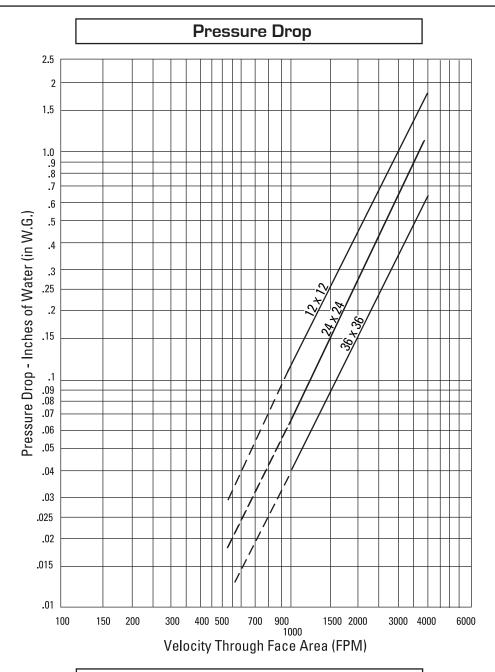
Type: Electric: Model #\_\_\_\_\_ Pneumatic: Model #\_\_\_\_\_

Location: Right External (Std) Left External Internal

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

Submittal

## PERFORMANCE DATA - Model SSD-3V-OW-202 Smoke Damper for Out-of-Wall/Floor Applications

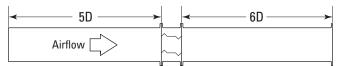


## To determine pressure drop:

- 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 data reflects damper face area only and does not take into acount internally mounted actuator.

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

Submittal



# ACTUATORS & SLEEVES - Model SSD-3V-OW-202 Smoke Damper for Out-of-Wall/Floor 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 out of wall/floor products.

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

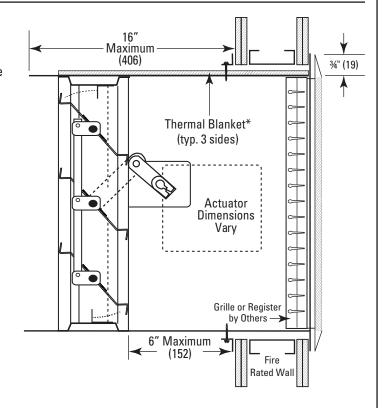
- Standard clearance allowance for grille inset is 3" (76).
- Maximum sleeve length is 16"(406) plus the total wall depth.

Sleeve is provided with a 3/4" (19) flange on the actuator end of the sleeve by default. Flange must be on top of barrier in horizontal installations.

## Thermal Blanket (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 Out-of-Wall and Out-of-Floor 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.