Reference: Client:

Consultant: Project:

Contractor: Location:

Date: Submitted by:



Model SSD-3V-202

Smoke Damner 3V Blade, Class 2, UL-Classified

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



SEE COMPLETE MARKING ON PRODUCT

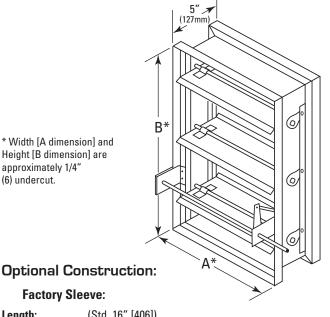


LISTINGS:

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

STANDARDS MET:

NFPA Standards: 92A, 92B, 101 & 105 **Building Code Standard:** ICC International Building Codes



Length:_ (Std. 16" [406])

Gauge: 20 18 16 14 10

No Sleeve: Insert Type Plate 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)

Electric (model #):__ Pneumatic (model #):_

Actuator Location

Right External (std) Left External Internal

Auxiliary Switch

Add to Damper (switch package) Add to Actuator (std.)

Momentary Test Switch

Application:

The CVS-SAFE4 model SSD-3V-202 is a Class 2 leakage rated Smoke Damper with 3V style blades (tested per UL 555S). The SSD-3V-202 has been qualified to 2,000 FPM and 4" w.g. for smoke control applications. The SSD-3V-202 is approved for vertical installation (in walls and partitions) with blades running horizontally as well as horizontal installation (floors). The SSD-3V-202 is rated for airflow and leakage in either direction.

MAXIMUM VELOCITY: 2000 fpm (10.2 m/s) MAXIMUM PRESSURE: 4" w.g. (1kPa)

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. Roll-Formed Steel	Airfoil Galv. Steel (see Model SSD-AF-202)		
Blade Sizes	Min. width of 4"(101.6) to max. width of 7"(178)			
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) Various sleeves I galvanized steel & guages avail			
Operating Temp.	350° (177°C)			
Leakage Class Rating	Class 2 Class 1 (see Model SSD-3V-201)			

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

Minimum and Maximum Size:

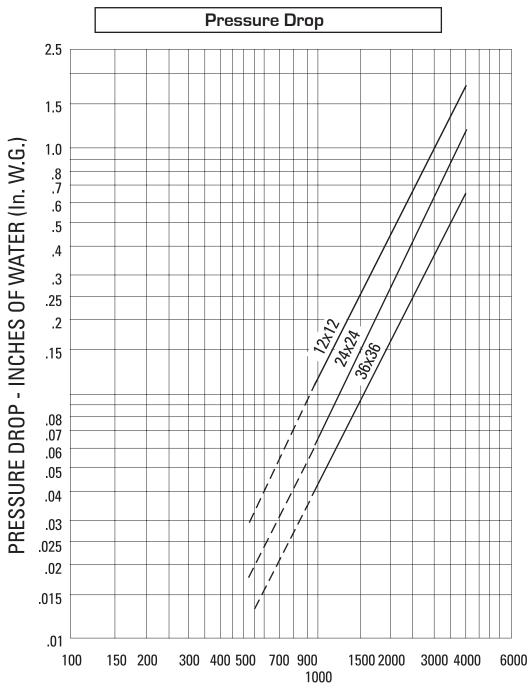
UL 555S Rating Mounting	Minimum Size (WxH)	Maximum Size (WxH)	
		Single Section	Multiple Section
Vertical (Wall) or Horizontal (Floor)	6 × 6* (152 × 152)	36 x 48 (914 x 1219)	144 x 96 (3657 x 2438)

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.

Submittal

PERFORMANCE DATA - Model SSD-3V-202 Class 2 Smoke Damper with 3V Blades



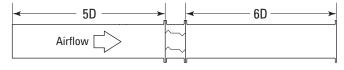
VELOCITY THROUGH FACE AREA

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).



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Submittal



ACTUATORS & NOTES - Model SSD-3V-202 Class 2 Smoke Damper with 3V Blades

Actuator Requirements:

UL555S requires that all leakage rated dampers be provided with factory mounted actuators. Available actuators vary by damper size and velocity, pressure and temperature ratings. Consult UL Damper Actuator Reference Chart for current offering.

Multiple section damper assemblies may require multiple actuators. In this case, all electric actuators will be factory wired to a single point.

If pneumatic actuators are employed, all will be plumbed to a common Valve.

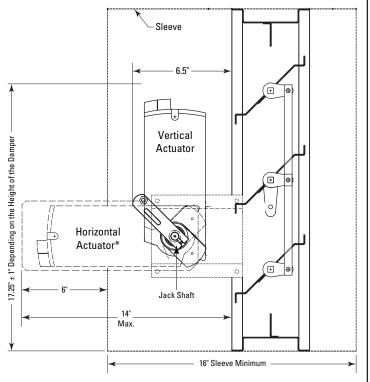
As a standard, the actautor is externally installed on the lower right-hand half of the damper when viewed from the jackshaft side. **The damper may be installed/rotated 180°** such that the actuator will be located on the upper left. The top of the damper is either side of the frame as long as the blades are running parallel.

SSD-3V-202 Notes:

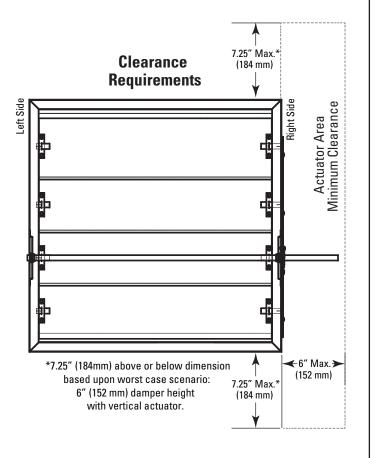
- Non-Sleeved and IT Plate dampers are furnished approximately 1/4" (6 mm) smaller than given duct dimensions.
- Sleeved dampers are furnished approx. same size as given duct dimension, unless otherwise noted.
- The SSD-3V-202 must be installed so that blades run horizontally. It is NOT recommended for blades to run vertically.
- All Smoke Dampers are supplied with a an actuator (electric or pneumatic) and are jackshafted.

Applicable CVS Literature:

- Smoke Damper Installation, Operation and Maintenance (IOM)
- Optional Sealing of Dampers in Fire and Smoke Rated Walls or Floors
- Installing the Smoke Detector
- Field Modification of Factory Supplied Sleeves

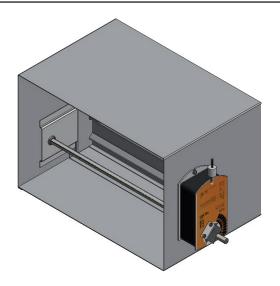


*Horizontal Actuators can be provided as "low profile" option and will be provided on a standoff to allow for duct connections.





SLEEVES & TRANSITIONS - Model SSD-3V-202 Class 2 Smoke Damper with 3V Blades



Standard Sleeve configuration where sleeve is added to damper. Damper size will be 1/4"(6) under ordered dimensions; sleeve dimension will be roughly ordered dimensions.

Flanges: An optional 3/4" (19) flanged sleeve is available for grille mounting.

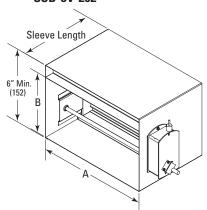
<u>Note:</u> If actuator is to be externally mounted, the flange(s) will need to be field installed.

Duct Connections/Sleeve Transitions:

Minimum Damper height is 6" (152). If smaller duct heights are required, transition will be supplied as shown in the detail SSD-3V-202.

• Minimum duct height is 4" (102)

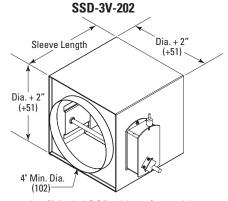
SSD-3V-202



Square to Round transitions attached on both ends of the damper sleeve (Model SSD-3V-202). Product is orderedon duct Diameter; damper will be fabricated 2" (51) larger in width and height. Collar extends 1.25" (32) beyond thesleeve length.

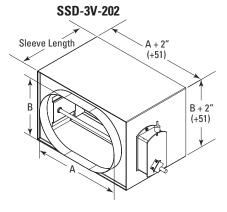
 Minimum 4" (102) diameter, Maximum 94" (2388) diameter for Vertical or Horizontal mount.

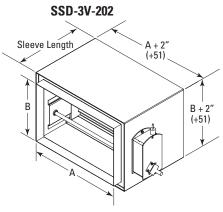
A = Duct Width B = Duct Height



Rectangular to Oval (Model SSD-3V-202) or Square/Rectangular to Square/Rectangular (Model SSD-3V-202)transitions attached on both ends of the damper sleeve. Product is ordered on width and height of duct connection required;damper will be fabricated 2" (51) larger in width and height. Collar extends 1.25" (32) beyond the sleeve length.

Minimum 4"w x 4"h (102 x 102), Maximum 142"w x 94"h (3607 x 2388) for Vertical or Horizontal mount.





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