

MODEL S-3V-I

Low Leakage Smoke Damper

UL 555S Classified and ULC S112.1 Listed
Class I Leakage Rated

Application and Design

The model S-3V-I is a UL/ULC listed and labeled class I leakage rated Smoke Damper. Blades are of the 3V shaped or crimped design. The damper is approved for airflow in either direction and provides a maximum leakage of 8 cfm/sq.ft. at 4" wg. s.p. It has been designed to be installed in a vertical or horizontal mounting position in the ductwork or a separate sleeve within 24" of the smoke partition. These dampers are approved for use in engineered smoke control systems and are controlled via smoke detection system. Electric (24V, 120V and 230V) or pneumatic actuators are used to operate the smoke dampers.



U.L. 555S Classified at 250°F
or 350°F depending upon
Actuator/Operator
*See Actuator/Operator Schedule



Standard Construction:

Frame: 5" Roll formed frame - galvanized steel hat-section
with staked corners and integral bracing.

Blades: 16 ga. roll formed - galvanized steel - 3V Blade design
Minimum width: 4-1/4" (108 mm)
Maximum width: 7-1/4" (184 mm)

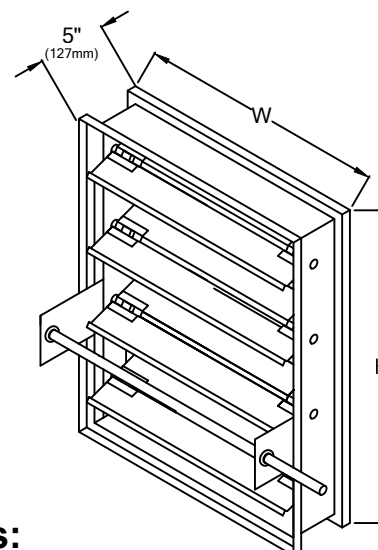
Bearings: Bronze Oilite, press-fit into frame.

Axles: Square, plated steel.

Seals: Pressure sensitive 450°F silicone blade edge
seals and flexible metal jamb seals.

Designed and tested in accordance to standards: UL 555S, ULC S112.1. Labeled and listed by UL/ULC under file R25410. They meet all the NFPA-90A, IBC code, and other major code requirements for smoke dampers.

Note: Due to continuing research,
S&P reserves the right to change
specifications without notice.



Options:

- ☐ Factory sleeves _____ ga. (20 ga minimum).
Length _____ inches (min. 16").
- ☐ Actuator
- ☐ Electric, _____ vac (Voltage)
 - ☐ Pneumatic, 25 psi

Note: None sleeved and side p[late]d dampers are
furnished approx. 1/4" (6.4mm) smaller than given
duct dimensions.
Sleeved dampers are furnished approx. same size
as given duct dimensions, unless otherwise noted.

NOT RECOMMENDED WITH BLADES RUNNING
VERTICALLY

Standard Sizes

Min. V or H	Max. Single Section	Max. Multiple Assy.
8" x 6" (203mm x 152mm)	36" W x 48" H (914mm x 1219mm)	144" W X 96" H (3657mm x 2438mm)

SUGGESTED SPECIFICATIONS

Low leakage smoke control dampers shall be model S-3V-I By S&P. Double blade edge and jamb seals shall be of the pressure sensitive type for low leakage. Dampers shall be rated for leakage as to U.L. 555S/U.L.C. S112.1 rating and shall be class I with leakage not to exceed 8 cfm per sq.ft. at 4.0 inches static pressure. Linkage shall be of the concealed type for maximum free area.

MANUFACTURE'S RECOMMENDATIONS

All moving parts of the damper must be inspected and cycled at intervals not greater than every 12 months or in accordance with the latest edition of NFPA 90A, 92A, local codes and the actuator manufacture. In addition, the damper shall be inspected for corrosion. Dry Lubricants are recommended.

Job Name:

Location:

Architect:

Engineer:

Contractor:



☐ **MODEL S-3V-I**

DRAWN BY:
MAB

REV. NO.
4

DATE:
11-07-07

APPROVED BY:

REV. DATE:
4-13-26

DWG. NO.:
C-1