MODEL: BMI-SD-V-MS-101
SMOKE DAMPER
Triple "V" Blade, 1-1/2 hours., Class 1, UL-listed.

APPLICATION:

Model BMI-SD-V-MS-101 is a smoke damper with triple "V" style blades. The BMI-SD-V-MS-101 is a class 1 low leakage smoke damper used to restrict the spread of smoke in HVAC system that are designed to be automatically shut down and is rated for airflow and leakage in either direction. The BMI-SD-V-MS-101 is installed Vertically as well as Horizontally.

RATINGS:

Fire Rating:	**1-½ hr**
Leakage Rating:	**Class 1**
Max. Velocity:	**2000fpm**
Max: Static Pressure:	**4.0" w.g 250**
Temperature Rating:	**Degree F.**
Operation Rating:	**Power Open**

LISTINGS:
UL555 & UL555S
UL112S

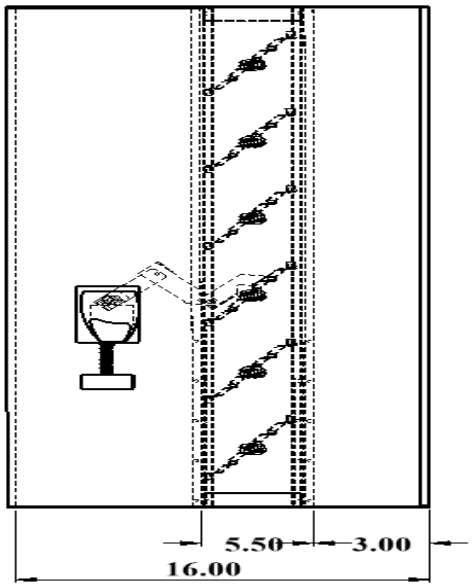
SEE COMPLETE MARKING ON PRODUCT

STANDARDS MET:

NFPA 90A
International Building Code
National Building Code (NBC Canada)
SMACNA

STANDARD CONSTRUCTION:

Frame	**16 Ga. Galvanized Steel Hat Channel**
Blade Material	**16 Ga. Galvanized Steel**
Blade Type	**Triple "V" formed**
Actuator	**Electric two position spring return 24V or 120V**
Axle Material	**Fire Resistant Bronze/Brass bushing**
Finish	**Mill Galvanized**
Linkage	**2.5mm (0.10") zinc plated steel concealed in the frame**
Sleeves	**16" x 18-Gauge Galvanized steel factory installed**
Blade Seals	**Silicone rubber gasket with laminated acrylic adhesive bonded to blade edges**
Jamb Seals	**Corrosion Resistant Stainless Steel**
Connecting Rod	**0.472" x 0.472" (12mm x 12mm) Zinc Plated Square Steel**
Leakage Class	**Class 1 250 Degree F**
UL Hour Rating	**1.5 Hour**



OPTIONAL CONSTRUCTION:

- ☐ **Auxiliary Switch**
  - **● Add to Actuator (recommended)**
  - **● Add to Damper**
- ☐ **Test Switch (Cycle Test)**
- ☐ **Retaining Angles**
  - **● One Sided ● Two Side**
- ☐ **Smoke Detector**
  - **● Installed ● Loose**
- ☐ **Actuators**
  - **● Right ● Left ● Internal**

MINIMUM & MAXIMUM SIZES:

UL555S Rating Mounting	Minimum Size (W x H)	Maximum Size (W x H)	
Vertical (Wall)/ Horizontal (Floor)	Single Section	Single Section	Multiple Section
	8" x 8" (203 mm) x (203 mm)	36" x 36" (914 mm) x (914 mm)	144" x 72" (V) (3657 mm) x (1828 mm) & 288" x 36" (H) (7315 mm) x (914 mm)

ACTUATOR SPECIFICATION:

	Honeywell	Belimo
120 V	MS4104F1210	FSLF120 - S US
	MS4109F1210	FSNF120 - S US
24 V	MS8104F1210	FSLF24 - S US
	MS8109F1210	FSNF24 - S US

Minimum Duct Size: Vertical / Horizontal Mount 4" x 4" (C-style) (enclosure)

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

Follow Instructions

MODEL: BMI-SD-V-MS-101
SMOKE DAMPER
Triple "V" Blade, 1-1/2 hours., Class 1, UL-listed

ACTUATOR REQUIREMENTS:

As per UL555S all leakage rated smoke dampers be provided with factory mounted actuators. Actuator models vary by damper size and velocity, pressure and temperature ratings.

Multiple section smoke damper assemblies require multiple actuators. All electric actuators need to be factory wired to a single point.

SLEEVE REQUIREMENTS:

Standard sleeve length is 16", which is appropriate for use with up to 5" deep wall and two-sided angle installation.

When the actuator is externally mounted and the wall thickness exceeds 5", ad 1" for each additional inch of wall thickness to ensure sleeve fully penetrates the wall / floor. Each additional 1" will be added to the non-actuator side.

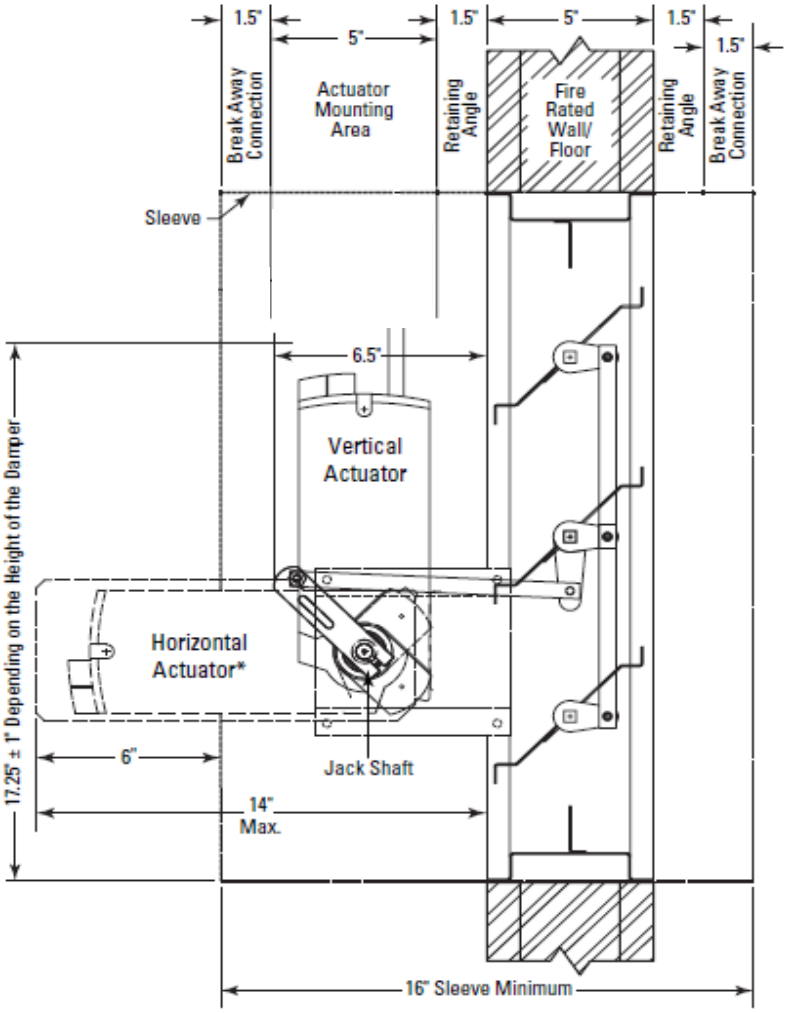
By default, the actuator is externally Installed on the lower right-hand of the smoke damper when viewed from the jackshaft side. The smoke damper may be rotated 180 deg. Such that the actuator will be located on the upper left. The top of the smoke damper is either side of the frame as long as the blades are running horizontal.

Smoke Damper is not approved for installation with the blades running vertically. Entire damper frame does not have to be installed in the plane of the wall. The requirement is that the blade closure end must be within the plane of the fire rated wall / floor.

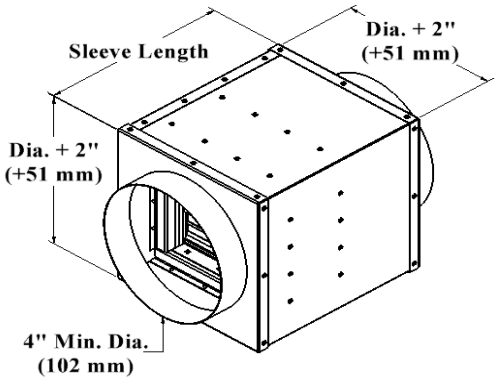
- **Smoke Damper Installation, Operation and Maintenance.**
- **Installing the Smoke Detector**

SLEEVE TRANSITIONS:

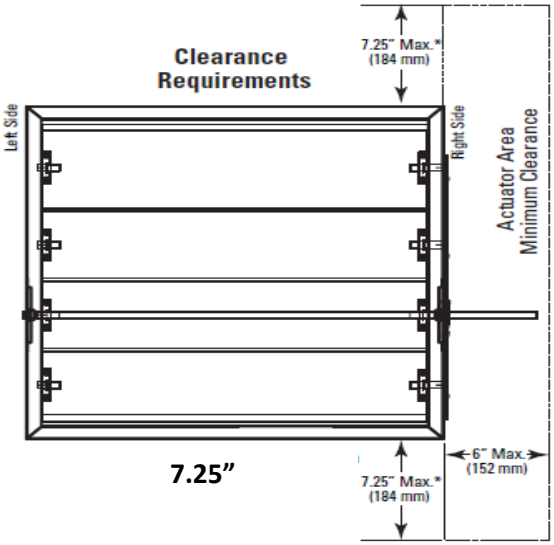
RD: Square to Round transitions rivet on both ends of the damper sleeve. The smoke Damper will be fabricated 2' mm) larger in width and height. Collar Extends 2.5" (64 mm) beyond the sleeve length. The minimum collar size is Diameter 4" (102 mm).



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



Square to Round Collar



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