CLASS I - 350°F - CLASS I - 250°F - CLASS 2 - 250°F MODEL BMSD / MODEL BMSDLT

STANDARD CONSTRUCTION

Standards: Designed and tested in accordance with UL5555. Meets NFPA 90A and SMACNA requirements for fire & smoke dampers.

Application: For dynamic smoke management systems.

- Frame: IB3mm Roll formed hat-shaped made of I.4mm thick galvanized steel with reinforced corners, having integral bracing and 90° perpendicular overlap at a corner.
- Blades: Roll formed 3 V-shaped made of I.4mm thick galvanized steel.
- Bushes: Bronze bushes.
- Axles: %" Square axles made of galvanized steel.
- Linkage: Mechanical and concealed in frame.

Drive Mechanism: 1/2" Round Jack Shaft made of galvanized steel.

Jamb Seals: Stainless steel jamb seals.



Model BMSD & BMSDLT

- Blades Seals: UL listed high-temperature (exceeding 450° F) Silicone blades edges seal/gasket manufactured in accordance with UL555S requirements.
- Sleeve: Sleeve made of 400mm depth and I.Imm thickness galvanized steel.
- Mounting: Vertical/Horizontal mounting.

Air Flow Rating: 2000 FPM / 4 IWG.

- Leakage: Class I @ 350°F Class I @ 250°F Class 2 @ 250°F
- Sizes: Single Section: Max. 36" X 36" Multiple Section: Max. 72" X 72"





CLASS I - 350°F - CLASS I - 250°F - CLASS 2 - 250°F

MODEL BMSD / MODEL BMSDLT

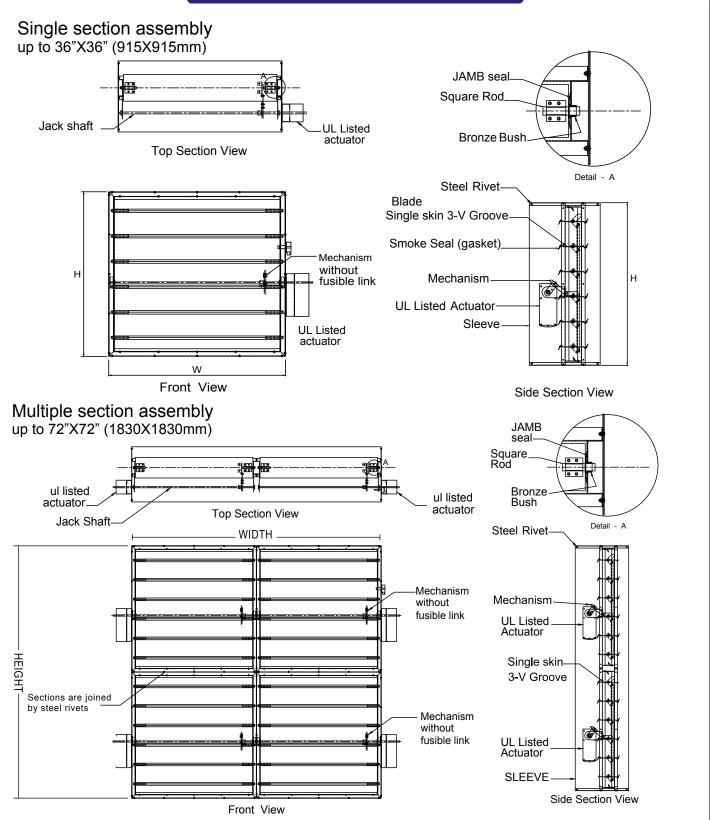
OPTIONS

_ Round spigo	ts for model BMSD/R & BMS	DLT,	/ R .			
	MODEL	BMSD	BMSD/R	BMSDLT	BMSDLT/R	
USE	FIRE BARRIER					
	SMOKE BARRIER	√	√	√	√	
SYSTEM	STATIC					
	DYNAMIC	√	√	√	√	
AIR FLOW RATING	2000 FPM	1	√	1	1	Model BMSD/R & BMSDL
PRESSURE RATING	4 IWG	1	1	1	J	
LEAKAGE CLASS	CLASS I - 250°F	√	1	\checkmark	\checkmark	Real
	CLASS I - 350°F	1	1			
	CLASS 2 - 250°F	1	1			
FIRE RATING	3 HR					
	1½ HR					
MOTORIZED	NO					
	YES	\checkmark	√	\checkmark	\checkmark	
ROUND SPIGOTS	WITH		√		√	
	WITHOUT	√		√		Model BMSD-XS & BMSDL
TEMPERATURE RESPONSIVE DEVICE	"165°F RESETTABLE THERMOELECTRIC TRD"					
	WITH	1	\checkmark	1	\checkmark	
SLEEVE	WITHOUT	ABOVE MODELS WITHOUT ROUND SPIGOT CAN BE WITHOUT SLEEVE & WITH ONE SIDE PLATE WHEN THE MODEL ENDS				UASSIR

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CLASS I - 350°F - CLASS I - 250°F - CLASS 2 - 250°F MODEL BMSD / MODEL BMSDLT

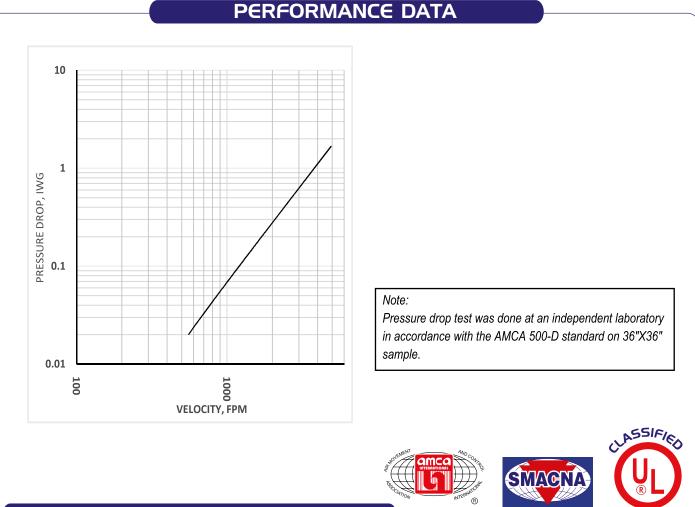
ASSEMBLY



UL CLASSIFIED DAMPERS

SMOKE DAMPER

CLASS I - 250°F CLASS I - 350°F CLASS 2 - 250°F -MODEL BMSD / MODEL BMSDLT



ORDERING KEY





SIZE XS BMSD **/R8** --MSD - MOTORIZED **SMOKE DAMPER** WITH 9Nm ACTUATOR --MSDLT - MOTORIZED **SMOKE DAMPER** WITH 3.4Nm ACTUATOR --: WITHOUT ROUND SPIGOT /Rd: WITH ROUND SPIGOTS OF "d" DIA. ("d" IS DIAMETER IN INCH UP TO 32") **SIZE: WIDTH X HEIGHT** --MSD - SINGLE SECTION: MAX. 36" X 36" MULTIPLE SECTION: MAX. 72" X 72" --MSDLT - SINGLE SECTION: MAX. 20" X 20" --: WITH SLEEVE (STANDARD) **XS: WITHOUT SLEEVE**

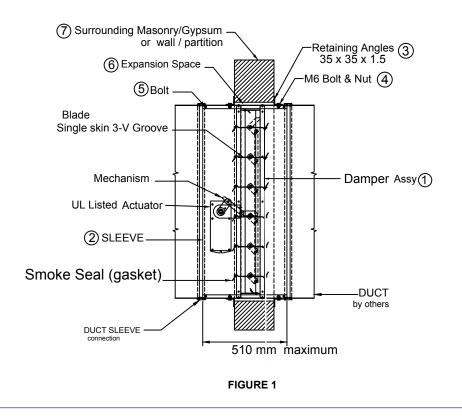


CLASS I - 350°F - CLASS I - 250°F - CLASS 2 - 250°F MODEL BMSD / MODEL BMSDLT

INSTALLATION

(F) INSTALLATION AND OPERATING INSTRUCTIONS FOR MODELS BMSD, BMSDLT, BMSD/R & BMSDLT/R

- 1) The damper (1) should be installed vertical, centrally and resting on the bottom opening within the surrounding masonry / gypsum wall (7). Actuator should be out of wall / gypsum partition as shown in (figure 1).
- 2) The damper (1) should be installed in a rectangular galvanized steel sleeve (2) with a minimum thickness of 1.1mm. This sleeve should be attached to the damper using M6 bolts (5) and spaced at not more than 110 mm centers and 30 mm from corners.
- 3) Clearance requirements for damper sleeves within a wall opening are based on 1/8 inch per foot (10mm per meter) of width or height unless otherwise stated in the listing of the assembly.
- 4) The sleeve (2) should be of suitable length to extend through the wall to enable the fitting of the cover angles and ductwork. Minimum of 90 mm from the wall and total depth of the sleeve should not exceed more than 510 mm.
- 5) The retaining angles (3) should be attached to the sleeve by 6 mm dia (4) bolts at a maximum of 110 mm centers, and should form a complete frame around the sleeve and cover over the expansion space (6) required between sleeve and wall opening. The four corner of the retaining angles are not to be welded. The bolts connecting the retaining angles to the sleeve to be 30 mm maximum from the corners. Retaining angles will be send in loose parts. Note: The retaining angles bolts should be out of the area of the damper frame.
- 6) The retaining angles (3) should be of such a size as always to form an overlap with the wall by 25mm minimum and should be manufactured from a minimum size of 35 x 35 x 1.5 mm Gl.
- 7) The duct-sleeve connection to be of as per listed in UL 555s. Connecting ducts shall not be continuous and shall terminate at the sleeve. Installation shall comply with NFPA 90A.
- 8) All fixing of frames must be positioned clear of the damper blade path so as not to impede proper closure.





UL CLASSIFIED DAMPERS

SMOKE DAMPER

CLASS I - 350°F - CLASS I - 250°F - CLASS 2 - 250°F MODEL BMSD / MODEL BMSDLT

INSTALLATION

