

MODULATING COMBINATION FIRE/SMOKE DAMPER

AIRFOIL BLADE • HIGH PERFORMANCE 3 HR. LABEL • SQ., RECT. OR OVAL DUCT CONNECTION

MODEL: 1223M-3 (TYPE C SLEEVE ENCLOSURE)

QUALIFICATIONS:

- UL 555 & CAN/ULC-S112 CLASSIFIED DYNAMIC FIRE DAMPER 3 hr. Label (File #'s R9492 & R19569).
- UL 555S CLASSIFIED SMOKE DAMPER (File # R9492) Leakage Class I at 250°F elevated temperature.
- City of New York. MEA #366-03-M.
- California State Fire Marshal: Fire Damper Listing No. 3225-0935:106.
- Meets NFPA 80, 90A, 92A, 92B, 101 and 105 as well as IBC and NBC (Canada) Building Code requirements.
- Maximum velocity: 2000 fpm @ 4" w.g.

The 1220M-3 Series modulating dampers are classified for use as a volume control damper in applications where building codes require both a fire damper for the protection of ductwork penetrations in walls or floors that have a fire resistance rating of up to 4 hours and also require a leakage rated damper for operational smoke control in static or dynamic smoke management systems.

The 1220M-3 Series has been especially designed and tested to provide premium performance. It offers the lowest leakage class available and is qualified for installation with airflow in either direction and inverted mounting. Airfoil blade design and elimination of blade sills, top and bottom, provide a low pressure drop design.

Unique, inter-locking double skin blade design provides flame and smoke seal under fire conditions.

STANDARD SPECIFICATION:

Frame: 5" x 7/8" x 16 ga. (127 x 22 x 1.6) galvanized steel hat channel.

Blades: 14 ga. (2.0) equivalent galvanized steel formed airfoil on 5 1/2" (140) centers. Opposed action.

Linkage: Concealed in frame. 12 ga. (2.7) plated steel.

Bearings: 1/2" (13) dia. self-lubricating oilite bronze.

Axles: 1/2" (13) dia. plated steel double bolted to blades.

Jackshaft: 1/2" (13) dia. cadmium plated steel.

Jamb Seals: Stainless steel.

Heat Responsive Device (Controlled Closure):

ERL (Electric Resettable Link) is standard on dampers with electric actuators: 250°F (121°C) standard. 165°F (74°C) and 212°F (100°C) available.

PRL (Pneumatic Replaceable Link) is standard on dampers with pneumatic actuators: 212°F (100°C) standard. 165°F (74°C) available.

Sizes (Duct W x H):

Velocity/	Elevated	Minimum	Maximum		
Pressure	Temp.	Single Section	Single Section		Multiple Section
Rating	°F	Vertical/Horizontal	Vertical	Horizontal	Vertical
24	250	4" x 4" (102 x 102) (Overall damper size is 8" x 8" [203 x 203] min.)	34" x 46" (864 x 1168)	30" x 46" (762 x 1168)	118" x 94" (2997 x 2388) (maximum each section 30" x 48" [762 x 1219])

SLEEVE/ENCLOSURE SELECTION:

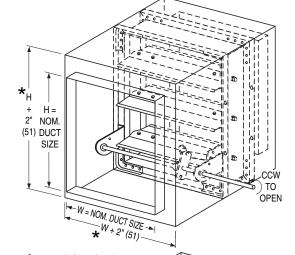
1223M-3	Standard factory sleeve (caulke	ed to UL	requirements	3) 16"
	long x 20 ga. (406 x 1.0).			
400084.0	Maria area francista a construction		1	

☐ 1223M-3 Non-standard sleeve. Specify _____ length ____ ga Available up to 36" (914) dependent upon wall thickness and 10 through 20 ga. (3.5 through 1.0).

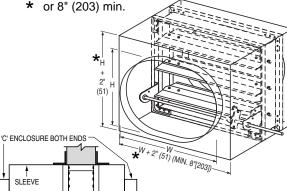
LEAKAGE CLASS/ELEVATED TEMPERATURE: I @ 250°F

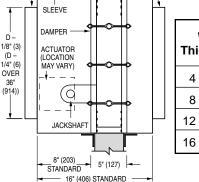
DYNAMIC VELOCITY/PRESSURE RATING: 24 2000 fpm @ 4" w.g. **ACTUATOR SELECTION:** Delectric Delectric Pneumatic

ACTUATOR LOCATION: □ External □ Internal (in the airstream)



ASSIFIED





Wall Thickness	Sleeve Length		
4 (102)	16 (406)		
8 (203)	20 (508)		
12 (305)	24 (610)		
16 (406)	28 (711)		

NA:--:---

ACTUATOR FAIL POSITION: Closed. OPTIONS:

J	BS	Stainless steel bearings
	MLS-300	Position indicator switch pack
	MLS-400	Electric Fire Sensor (Re-oper

Electric Fire Sensor (Re-openable control system). Includes dual heat sensors (165°F and 250°F) and position

indicator switch pack.

Quick-set retaining angle (one side)

QS2 Quick—set retaining angles (two sides)

SCHEDULE TYPE:For installation instructions, see IOM-1220INST.PROJECT:Dimensions are in inches (mm).ENGINEER:DATEB SERIESSUPERSEDESDRAWING NO.CONTRACTOR:5 - 7 - 1212008 - 21 - 081220M-3-4

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