

COMBINATION FIRE/SMOKE DAMPER

VERTICAL AIRFOIL BLADE

HIGH PERFORMANCE • 1 1/2 HR. LABEL SQUARE, RECT. OR OVAL DUCT CONNECTION

MODEL: 1223VB (TYPE C SLEEVE ENCLOSURE)

QUALIFICATIONS:

- UL 555 & CAN/ULC-S112 CLASSIFIED DYNAMIC FIRE DAMPER 1 1/2 hr. Label (File #'s R9492 & R19569).
- UL 555S CLASSIFIED SMOKE DAMPER (File # R9492)
 Leakage Class I or II at 250°F elevated temperature.
- Meets NFPA 80, 90A, 92A, 92B, 101 and 105 as well as IBC and NBC (Canada) Building Code requirements.
- California State Fire Marshal Listing No. 03230-0935:106.
- City of New York. MEA # 366-03-M.
- . Maximum velocity: 2000 fpm @ 4" w.g.

Model 1223VB (Vertical Blade) is a high performance combination fire/smoke damper that provides superior protection and versatility. The vertical blade configuration allows for the actuator to be mounted below the damper and is ideal for applications where bottom access is desired or where there isn't space for a side mounted actuator.

The 1220VB Series dampers are ideal for applications where building codes require both a fire damper for the protection of ductwork penetrations in walls that have a fire resistance rating of up to 2 hours and also require a leakage rated damper for operational smoke control in static or dynamic smoke management systems.

The 1220VB 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. Airfoil blade design and elimination of blade sills provide a low pressure drop design.

Unique, inter-locking double skin blade design provides flame and smoke seal under fire conditions at temperatures up to $2000^{\circ}F$.

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):

250°F (121°C) standard. 165°F (74°C) and 212°F (100°C) available.

ERL (Electric Resettable Link) is standard on all dampers with electric actuators.

Sizes (Duct W x H):

Velocity/	Elevated Temp. °F	Minimum	Maximum	
Pressure		Single Section	Single Section	
Rating		Vertical	Vertical	
24	250	4" x 4" (102 x 102) (overall damper size is 8" x 8" [203 x 203] min.).	46" x 34" (1168 x 864)	

Note: Multiple Section Assemblies are not permitted.

SLEEVE/ENCLOSURE SELECTION:

☐ 1223VB Standard factory sleeve (caulked to UL requirements) 16" long x 20 ga. (406 x 1.0).

☐ 1223VB 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:

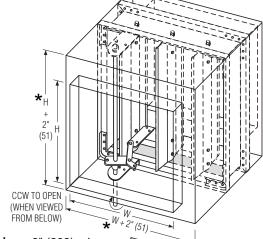
☐ I ☐ II @ 250°F

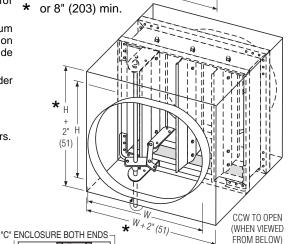
ENGINEER:

CONTRACTOR:

DYNAMIC VELOCITY/PRESSURE RATING: 24 2000 fpm @ 4" w.g.

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SCHEDULE TYPE:		
PROJECT:		





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	-	16" (4	406	STE) —	-

Min. Sleeve		
Length		
16 (406)		
20 (508)		
24 (610)		
28 (711)		

ACTUATOR SELECTION: Electric.

ACTUATOR LOCATION: External, bottom mount. ACTUATOR FAIL POSITION: Closed.

OPTIONS:

□ BS Stainless steel bearings
□ MLS-300 Position indicator switch pack

MLS-400 Electric Fire Sensor (Re-openable control system). Includes dual heat sensors (165°F and 250°F) and position indicator switch pack.

QS1 Quick-set retaining angle (one side)QS2 Quick-set retaining angles (two sides)

For installation instructions, see IOM-1220VBINST. Dimensions are in inches (mm).

 Date
 B series
 supersedes
 drawing no.

 5 - 7 - 12
 1200
 11 - 12 - 08
 1220VB-4