



**COMBINATION FIRE/SMOKE DAMPER**  
**VERTICAL AIRFOIL BLADE**  
**SQUARE, RECT. OR OVAL DUCT CONNECTION**  
**HIGH PERFORMANCE**  
**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.
- 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.

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°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.

**Min. Duct Size:** Vertical mount only: 4" x 4" (102 x 102).

(Overall damper size is 8" x 8" [203 x 203] min.).

**Max. Duct Size:** Single Section – Vert. mount only: 46" x 34" (1168 x 864). Multiple Section Assemblies are not permitted.

**SLEEVE/ENCLOSURE SELECTION:**

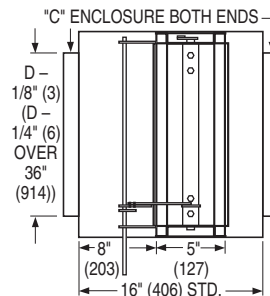
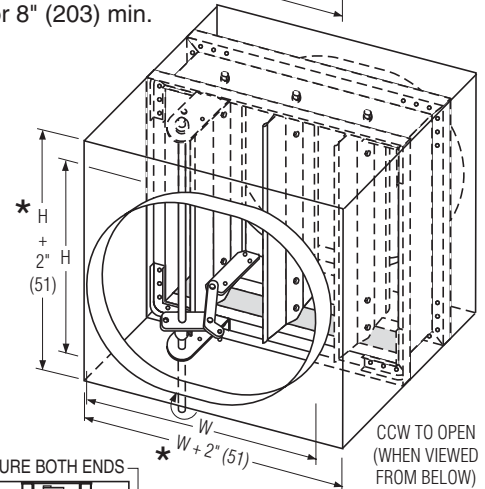
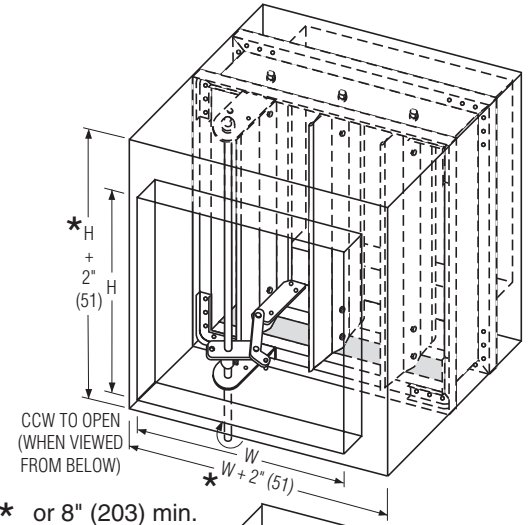
**1223VB** Standard factory sleeve (caulked to UL requirements) 16" long x 20 ga. (406 x 1.0).

**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

**ACTUATOR LOCATION:** External, bottom mount.



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

**ACTUATOR FAIL POSITION: Closed.**

**OPTIONS:**

- 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.

<b>SCHEDULE TYPE:</b>	Dimensions are in inches (mm).			
<b>PROJECT:</b>				
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
<b>CONTRACTOR:</b>	11 - 12 - 08	1200	8 - 21 - 08	1220VB-4