

COMBINATION FIRE/SMOKE DAMPER

AIRFOIL BLADE • HIGH PERFORMANCE
1 1/2 HR. LABEL • ROUND DUCT CONNECTION

MODEL: 1223

(TYPE C SLEEVE ENCLOSURE)



QUALIFICATIONS:

- UL 555 & CAN/ULC-S112 CLASSIFIED DYNAMIC FIRE DAMPER 1 1/2 hr. Label (File # R9492).
- UL 555S CLASSIFIED SMOKE DAMPER (File # R9492) Leakage Class I or II at 250°F or 350°F elevated temperature.
- City of New York. MEA # 366-03-M.
- California State Fire Marshal: Fire Damper Listing No. 3225-0935:0106.
- Meets NFPA 80, 90A, 92A, 92B, 101 and 105 as well as IBC and NBC (Canada) Building Code requirements.
- Maximum velocity: Up to 4000 fpm @ 8" w.g. (20 m/s @ 2 kPa).

The 1220 Series dampers are ideal for 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 2 hours and also require a leakage rated damper for operational smoke control in static or dynamic smoke management systems.

The 1220 Series has been especially designed and tested to provide premium performance and is AMCA licensed. 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 CONSTRUCTION:

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), 212°F (100°C) and 350°F (176°C) available.

PRL (Pneumatic Replaceable Link) is standard on dampers with pneumatic actuators: 212°F (100°C) standard. 165°F (74°C) and 280°F (138°C)

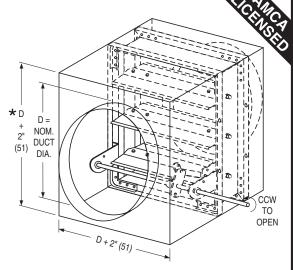
Sizes (Duct Diameter):

SCHEDULE TYPE:

CONTRACTOR:

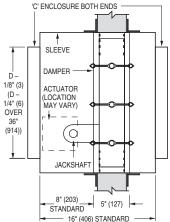
PROJECT: ENGINEER:

Velocity/ Pressure	Elevated Temp. °F	Minimum	Maximum				
		Single Section	Single Section		Multiple Section		
Rating		Vertical/Horiz.	Vertical	Horizontal	Vertical/Horiz.		
24, 34, 36, 46	250/350		34" (864) dia.	30" (762) dia.	94" (2388) dia.		
48	250	4" (102) dia.	34" (864) dia.	30" (762) dia.	94" (2388) dia.		
48	350		22" (559) dia.	22" (559) dia.	46" (1168) dia.		



Exception:

*5" (127) duct diameter is 8" (203) overall height.



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

SLEEVE/ENCLOSURE SELECTION:

- ☐ 1223 Standard factory sleeve (caulked to UL requirements) 16" long x 20 ga. (406 x 1.0) (18 ga. [1.3] for dampers over 84" [2134] in width).
- ☐ 1223 Non-standard sleeve.

 Specify length

Available up to 36" (914) dependent upon wall thickness and 10 through 20 ga. (3.5 through 1.0).

For installation instructions, see IOM-1220INST.



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ACTUATOR SELECTION: □ Electric □ Pneumatic						
POWER REQUIREMENT:						
☐ 120 120 VAC						
☐ 230 230 VAC						
□ 24 24 VAC						
25 25 psi Pneumatic						
LEAKAGE RATING: U I Class I (Standard)						
☐ II Class II						
DYNAMIC VELOCITY/PRESSURE RAT	TING:					
24 2000 fpm @ 4" w.g. (Standard)						
☐ 34 3000 fpm @ 4" w.g. (Optional)☐ 36 3000 fpm @ 6" w.g. (Optional)☐						
☐ 46 4000 fpm @ 6" w.g. (Optional)						
☐ 48 4000 fpm @ 8" w.g. (Optional)						
ELEVATED TEMPERATURE:						
☐ 250 250°F (121°C) (Standard) ☐ 350 350°F (176°C)						
CLOSURE DEVICE:	CLOSURE TEMPERATURE:					
		165°F (,	212°F (100°	°C) 35 0)°F (176°C)
			(138°C) / 165 °F			
	(121°C / 74°C) (std.)	(176°C	/ 74°C)			
☐ FL Fusible Link ☐ 165°F (74°C) (std.) ☐ 212°F FL Fusible Link is only available with electric actuator (external mount, fail ope			` '	10100)		
2000 fpm @ 4" w.g. (34" [864] dia. Vert			n) @ 250°F (121°C),		
ACTUATOR MOUNTING:						
☐ EXT External (Standard) ☐ INT Internal (Optional)						
ACTUATOR FAIL POSITION:						
☐ CL Closed (Standard)						
OP Open (Optional) (Requires FI	L Fusible Link)					
OPTIONS:						
□ BS Stainless steel bearings □ MLS-300 Position Indicator Switch Page	ck					
Quick—set retaining angle (o						
QS2 Quick—set retaining angles (two sides)					
			For installa	tion instruction	ons, see IOM-	-1220INST.
SCHEDULE TYPE:	Page 2 of 2					
PROJECT:		Dimensions are in inches (mm)				
ENGINEER:				B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:			8 - 23 - 23	1200	7 - 26 - 21	1220-3