

COMBINATION FIRE/SMOKE DAMPER

AIRFOIL BLADE • HIGH PERFORMANCE 3 HR. LABEL • ULTRA-LOW LEAKAGE

MODEL: 1222-3

(TYPE B SLEEVE ENCLOSURE)



FOR DUCTS UNDER 8" (203) IN HEIGHT AND 8" (203) OR MORE IN WIDTH

QUALIFICATIONS:

- UL 555 & CAN/ULC-S112 CLASSIFIED DYNAMIC FIRE DAMPER 3 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 1220-3 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 4 hours and also require a leakage rated damper for operational smoke control in static or dynamic smoke management systems.

The 1220-3 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.

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):

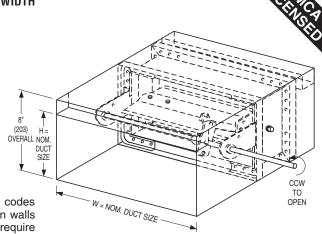
ERL (Electric Resettable Link) is standard on dampers with electric actuators: 250°F (121°C) standard. 165°F (74°C), 212°F (100°C) and 350°F (176°C) available

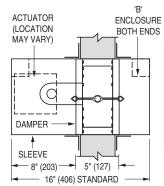
PRL (Pneumatic Replaceable Link) is standard on dampers with pneumatic actuators: 212°F (100°C) standard. 165°F (74°C) and 280°F (138°C) available.

Sizes (Duct W x H):

Velocity/	Elevated Temp.	Minimum	Maximum		
Pressure		Single Section	Single Section		Multiple Section
Rating	°F	Vertical/Horizontal	Vertical	Horizontal	Vertical
24, 34, 36, 46, 48	250/350	8" x 4" (203 x 102) (overall damper height is 8" [203]).	36" x 7 1/2" (914 x 191)		120" x 7 1/2" (3048 x 191) (maximum each section is 30" x 7 1/2" [762 x 191]).

Note: Duct sizes less than 8" (203) in width require a Type 'C' enclosure (Model 1223-3).





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

SLEEVE/ENCLOSURE SELECTION:

☐ 1222-3 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).

Available up to 36" (914) dependent upon wall thickness.

☐ 1222-3 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).

For installation instructions, see IOM-1220INST.

SCHEDULE TYPE:	Page 1 of 2				
PROJECT:	Dimensions are in inches (mm).				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	7 - 26 - 21	1200	5 - 7 - 12	1220-3-2	



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CONTRACTOR:		\rightarrow	7 - 26 - 21	1200	5 - 7 - 19	1220-2-2	
PROJECT: ENGINEER:			DATE	B SERIES		DRAWING NO.	
SCHEDULE TYPE:				Page 2 of 2 Dimensions are in inches (mm)			
			For installa		ons, see IOM	-1220INST.	
	,		For install	tion instance!	no ess 1014	100010107	
Quick—set retaining angles (two	,						
☐ MLS-300 Position Indicator Switch Pack ☐ QS1 Quick—set retaining angle (one s	side)						
☐ BS Stainless steel bearings							
OPTIONS:							
☐ CL Closed (Standard) ☐ OP Open (Optional) (Requires FL Fu	usible Link)						
ACTUATOR FAIL POSITION: CL Closed (Standard)							
☐ INT Internal (Optional)							
EXT External (Standard)							
ACTUATOR MOUNTING:							
FL Fusible Link is only available with electri 2000 fpm @ 4" w.g. (36" x 7 1/2" [914 x 19							
	, , , ,	212°F (•	101°C\			
			/ 74°C)				
_		280°F(350°F /					
		165°F (•	212°F (100°	°C) 🚨 350)°F (176°C)	
CLOSURE DEVICE: CL	OSURE TEMPERATURE:						
■ 250 250°F (121°C) (Standard)■ 350 350°F (176°C)							
ELEVATED TEMPERATURE:							
☐ 48 4000 fpm @ 8" w.g. (Optional)							
☐ 36 3000 fpm @ 6" w.g. (Optional) ☐ 46 4000 fpm @ 6" w.g. (Optional)							
☐ 34 3000 fpm @ 4" w.g. (Optional)							
DYNAMIC VELOCITY/PRESSURE RATING □ 24 2000 fpm @ 4" w.g. (Standard)	G:						
II Class II	•						
☐ I Class I (Standard)							
LEAKAGE RATING:							
□ 24 24 VAC□ 25 25 psi Pneumatic							
☐ 230 230 VAC							
☐ 120 120 VAC							
☐ Electric ☐ Pneumatic POWER REQUIREMENT:							
ACTUATOR SELECTION:							
☐ H Horizontal						VO	
□ V Vertical						CHICA	
MOUNTING:							