

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 & CAN/ULC-S112.1 CLASSIFIED SMOKE DAMPER Leakage Class I or II at 250°F or 350°F elevated temperature (File # R9492).
- 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):

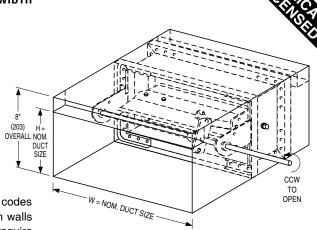
ERL (Electric Resettable Link) is standard on dampers with electric actuators: 250°F (121°C) standard. 165°F (74°C), 212°F (100°C) and 350°F (176°C) available.

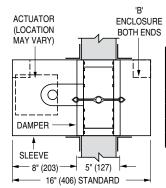
PRL (Pneumatic Replaceable Link) is standard on dampers with pneumatic actuators: 212°F (100°C) standard. 165°F (74°C) and 280°F (138°C) available.

Sizes (Duct W x H):

Velocity/ Pressure Rating	Elevated Temp. °F	Minimum		Max	imum	
		Single Section	Single Section		Multiple Section	
		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)	32" x 7 1/2" (813 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 ____

Available up to 36" (914) de

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:
 10 - 14 - 24
 1200
 7 - 26 - 21
 1220-3-2



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MOUNTING:					AN CONTRACTOR		
□ V Vertical				OH			
☐ H Horizontal ACTUATOR SELECTION:					Y		
☐ Electric ☐ Pneumatic							
POWER REQUIREMENT: 120 120 VAC							
☐ 230 230 VAC							
☐ 24 24 VAC							
☐ 25 25 psi Pneumatic							
LEAKAGE RATING:							
☐ I Class I (Standard)							
LI Class II	ATINO.						
DYNAMIC VELOCITY/PRESSURE RA	ATING:						
■ 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:						
☐ ERL Electric Resettable Link	, ,	212°F (100	°C) 🚨 350	0°F (176°C)			
PRL Pneumatic Link	□ 212°F (100°C) (std.) □ 280°F □ 250°F / 165°F □ 350°F						
☐ DTO Dual Temp. Override Sensor		7 165 F 5 / 74°C)					
☐ FL Fusible Link	(100°C)						
FL Fusible Link is only available with electric actuator (external mount, fail open) @ 250°F (121°C), 2000 fpm @ 4" w.g. (36" x 7 1/2" [914 x 191] Vertical, 32" x 7 1/2" [813 x 191] Horizontal max.).							
ACTUATOR MOUNTING:							
EXT External (Standard)							
☐ INT Internal (Optional)							
ACTUATOR FAIL POSITION:							
CL Closed (Standard)	El Eusible Liple						
OPTIONS:	FL FUSIDIE LINK)						
OPTIONS: ☐ BS Stainless steel bearings							
☐ MLS-300 Position Indicator Switch P	ack						
QS1 Quick-set retaining angle ((one side)						
☐ QS2 Quick—set retaining angles	(two sides)						
		Far in a 1 11 1	dana basaka se		1000INCT		
		ror installat		ons, see IOM	1220INST.		
SCHEDULE TYPE:	Page 2 of 2						
PROJECT:	Dimensions are in inches (mm)						
ENGINEER:	DATE	B SERIES		DRAWING NO.			
CONTRACTOR:		10 - 14 - 24	1200	7 - 26 - 21	1220-3-2		