

OUT OF WALL COMBINATION FIRE/SMOKE DAMPER

FOR THROUGH PENETRATIONS (DUCTED BOTH SIDES)

1 1/2 HR. LABEL • ULTRA-LOW LEAKAGE

MODEL: 1221-DOW



QUALIFICATIONS:

- UL 555 & CAN/ULC-S112 CLASSIFIED DYNAMIC FIRE DAMPER 1 1/2 hr. Label (File # R9492).
- UL 555S & CAN/ULC-S112.1 CLASSIFIED SMOKE DAMPER) Leakage Class I 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. 3225-0935:106.
- 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.

The Model 1221-DOW combination fire/smoke damper is specially designed for "out of wall" (vertical mount) or "out of floor" (horizontal mount) through penetration applications (ductwork is connected to both sides) where the damper cannot be installed within the plane of the wall or floor.

The 1221-DOW is 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 1221-DOW offers premium performance with the lowest leakage class available and is qualified for installation with airflow in either direction. Unique, inter-locking double skin blade design eliminates combustible seals and 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.

Sleeve: 21" x 20 ga. (533 x 1.0) galvanized steel standard. Insulation: Intumescent thermal insulation on four sides. 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.

1/2" (13) dia. cadmium plated steel. Jackshaft:

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 (Damper W x H):

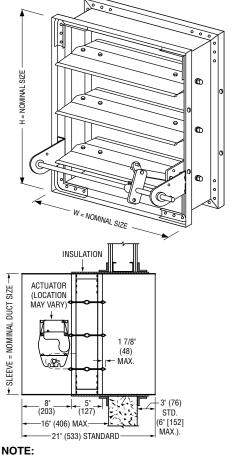
Velocity/	Elevated	ed Minimum Maximum		
Pressure	Temp.	Single Section Single Section		Section
Rating	°F	Vertical/Horizontal	Vertical	Horizontal
24, 34, 36, 46	250/350		36" x 48" (914 x 1219)	32" x 48" (813 x 1219)
48	250	8" x 8" (203 x 203)	36" x 48"(914 x 1219)	32" x 48" (813 x 1219)
48	350		36" x 24" (914 x 610)	32" x 24" (813 x 610)

BASE MODEL SELECTION:

ш	1221-DOW	Std. factory	/ sieeve. i	(caulked to	∪∟ requi	rements)) See a	above.
	1221-DOW	Non-stand	ard sleev	e. Specify		length _		ga.

LEAKAGE CLASS/ELEVATED TEMPERATURE:

☐ I @ 250° (Standard) ☐ I @ 350° (Optional)	☐ TDF1☐ TDF2	TDF Flange TDF Flange	(one end) (both ends)	(20 ga. sleeves only)
SCHEDULE TYPE:	For installation	on instruction	s, see IOM-12	21DOWINST
PROJECT:	Dimensions are in inches (mm).			
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO
CONTRACTOR:	10 - 22 - 24	1200	5 - 7 - 12	1221-DOW



STANDARD SLEEVE/DAMPER (FOR 4" [102] WALL) PROVIDES 1" (25) OFFSET FROM WALL FACE TO EDGE OF DAMPER FRAME. FOR THICKER WALLS OR TO OFFSET DAMPER FARTHER FROM WALL FACE (MAX. 8" [203]) LENGTHEN SLEEVE ACCORDINGLY.

DYNAMIC VELOCITY/ PRESSURE RATING:

	24	2000 fpm	@	4"	w.g.	(Sta	andard)
	34	3000 fpm	@	4"	w.g.		
	36	3000 fpm	@	6"	w.g.		
	46	4000 fpm	@	6"	w.g.		(Optional)
	48	4000 fpm	@	8"	w.g.	IJ	
ACTUATOR SELECTION:							

□ Electric □ Pneumatic

ACTUATOR LOCATION:

☐ External ☐ Internal (in the airstream)

ACTUATOR FAIL POSITION: Closed. OPTIONS:

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	BS	Stainless steel bearings		
	MLS-300	Position indicator switch	n pack	
	QS2	Quick-set retaining ang	les (pair)	
	TDF1	TDF Flange (one end)	(20 ga.	
	TDE2	TDE Flange (both ands)	oloovoo onk	

or installation instructions,	see IOM-1221DOWINST
D: :	