

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 CLASSIFIED SMOKE DAMPER (File # R9492) Leakage Class I at 250°F or 350°F elevated temperature.
- City of New York MEA #366-03-M.
- California State Fire Marshal: Fire Damper Listing No. 3225-0935:106.
- 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.

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 (Damper W x H):

Velocity/	Elevated	Minimum	Maximum		
Pressure	Temp.	Single Section	Single	Single 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)	

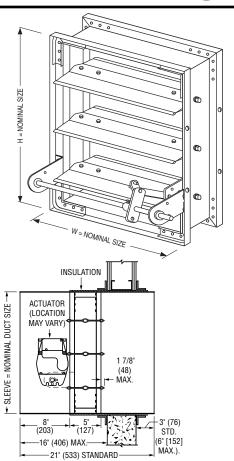
BASE MODEL SELECTION:

SCHEDULE TYPE:

□ 1221-DOW	Std. factory sleeve. (caulked to	o UL requirements)	See above.
□ 1221-DOW	Non-standard sleeve. Specify	length	ga.

LEAKAGE CLASS/ELEVATED TEMPERATURE:

□ I @ 250° (Standard) □ I @ 350° (Optional)



NOTE:

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.

(Optional)

DYNAMIC VELOCITY/ PRESSURE RATING:

- **24** 2000 fpm @ 4" w.g. (Standard)
- □ 34 3000 fpm @ 4" w.g.
- □ 36 3000 fpm @ 6" w.g.
- **46** 4000 fpm @ 6" w.g.
- **48** 4000 fpm @ 8" w.g.
- ACTUATOR SELECTION:
- Electric
 Pneumatic

ACTUATOR LOCATION:

- **External Internal** (in the airstream)
- **ACTUATOR FAIL POSITION: Closed.**

OPTIONS:

- □ BS Stainless steel bearings
- □ MLS-300 Position indicator switch pack
- Quick-set retaining angles (pair)
- **D** TDF1 TDF Flange (one end)) (20 ga. **D** TDF2 TDF Flange (both ends) | sleeves only)

For installation instructions, see IOM-1221DOWINST.

Dimensiona are in inches (mm)

PROJECT:	Dimensions are in inches (mm).			
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	5 - 7 - 12	1200	3 - 28 - 11	1221-DOW