

Combination Fire/Smoke Damper • 11/2 Hr. Rated • Airfoil Blade • Leakage Class I • 250°F or 350°F Rated • Front Access Grille • Galvanized Steel

STANDARD CONSTRUCTION

FRAME: 5½" x ½" x 16 GA. galvanized steel hat channel. BLADES: 20 GA. double-skinned, equal to 14 GA., parallel action.				
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Square, plated solid steel stub.				
Oil impregnated bronze.				
Plated steel angle and crank plates with stainless steel				
pivots, in-jamb type.				
20 GA. galvanized steel at head and sill.				
Silicone.				
Stainless steel.				
20 GA. galvanized steel by 15" long (1 ¹ / ₂ " grille clearance)				
or 17" long (3½" grill clearance) with ¹³ /16" front flange.				
Hardcast Irongrip 601 or UL-listed equivalent.				
Electric with heat response device (EHRD) or pneumatic				
with heat response device (PHRD), factory-installed for				
Power-Open/Spring-Close (fail close) operation, internally				
mounted and accessible from grille side.				
Mill.				

OPTIONS

Integral Dual Position Indication (IDPI) Switches Sensotherm Re-Openable Heat Response Device (ESOT) for electric actuator Sensotherm Re-Openable Heat Response Device (ESOP) for pneumatic actuator Model SM-501 Flow-Rated Smoke Detector

- Shipped Loose

Model 2D51 No-flow smoke detector (14" Minimum Damper Height)

Tab-Lock retaining angles

Stainless steel bearings

Copper tubing (for Pneumatic Actuators)

Sleeves of various gauge thicknesses

Round or oval transitions

Short-width (less than 12") and/or short-height (less than 10") transitions

NOTES

1. Damper frames are provided approximately ¼" undersized. The addition of a sleeve and insulation will increase the size of the assembly. See II-FAGM for sizing openings.

2. Damper with smoke detector must have a minimum sleeve of 16" ($1\frac{1}{2}$ " setback) or 18" (3" setback).

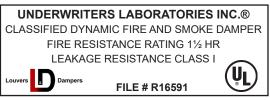
3. Dampers for horizontal installation can only be mounted in a fire barrier constructed of masonry/concrete materials.

DAMPER SIZES

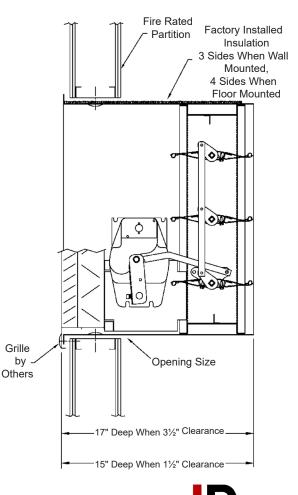
		2000 fpm, 4 in.wg	4000 fpm, 6 in. w.g.		
Orientation	Hor & Vert	Hor & Vert	Hor & Vert		
Panel	Min Panel	Max Panel	Max Panel		
Rectangular	10"W x 8"H (10"W x 8"H frame)	32"W x 42"H	24"W x 20"H		
Round	6" dia. (10"W x 8"H frame)	30" dia.	18" dia.		
Oval	8"W x 6"H (10"W x 8"H frame)	30"W x 40"H	22"W x 18"H		

*Dampers smaller than minimum frame size require a transition. Reference SD-TRFS.

** See sizing chart on page 3 for additional ratings.



- This combination fire/smoke damper meets the construction and performance requirements of:
- Underwriters Laboratories Inc. Standards 555 and 555S
- National Fire Protection Association Standards 80, 90A, 92, 101, 105
- ICC's International Building Code
- New York City MEA Listing #111-99-M
- California State Fire Marshal Listing #3225-1328:118
- Underwriters Laboratories Inc. Approved for dual direction airflow and dynamic conditions.
- Underwriters Laboratories Inc. Classified for use in fire resistive ratings of less than 3 hours.
- Underwriters Laboratories Inc. Classified for use in smoke control systems for Leakage Class I and 250°F or 350°F.
- Actuators must be arranged to operate automatically, must fail closed upon loss of power, and must be controlled by a smoke detection system.



Louvers

For handwritten orders, use the schedule block on page 2.

In the interest of product development, Louvers & Dampers reserves the right to make changes without notice.

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Dampers

A Mestek Company



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OPERATIONAL RATINGS

Maximum Differential Pressure: 4 in. wg Maximum Velocity: 2000 fpm

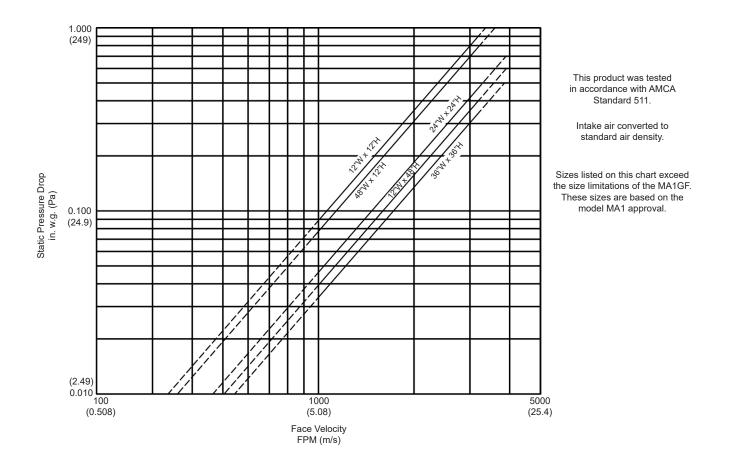
LEAKAGE RATINGS

UL Leakage Class I

4 cfm per sq. ft. maximum @ 1 in. wg 8 cfm per sq. ft. maximum @ 4 in. wg

PRESSURE DROP RATINGS

The Pressure drop data shown below is based on laboratory conditions. The test setup does not take into account elbows or other duct fittings that are part of every actual duct system. The configuration of the actual duct system immediately upstream and downstream of the damper often contributes more pressure loss than the damper itself.



Item #	Oty Dom	Damper Size	Horizontal	Vertical	250°F	350°F	Velocity	Pressure	13	
	Qty	y Damper Size	Orien	tation	Temp. Rating		Operational Rating		Union Made	
Arch. /	Eng.:				EDR:		ECN:		Job:	
Contractor:										
Pr	oject:				Date:		DWN:		DWG:	
					•	-	•			

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