February 2023

# MODEL CA1GF

Page 1

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 and Materials

Options

- Shipped Loose

Tab-Lock retaining angles

Stainless steel bearings

Round or oval transitions

sizing openings.

or 18" (3" setback).

Integral Dual Position Indication (IDPI) Switches

Model SM-501 Flow-Rated Smoke Detector

Copper tubing (for Pneumatic Actuators)

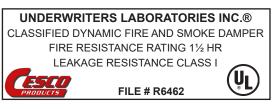
Sleeves of various gauge thicknesses

Notes

Standard Con			
FRAME:	5½" x ¾" x 16 GA. galvanized steel hat channel.		
BLADES:	20 GA. double-skinned, equal to 14 GA., parallel action.		
AXLES:	Square, plated solid steel stub.		
BEARINGS:	Oil impregnated bronze.		
LINKAGE:	Plated steel angle and crank plates with stainless steel		
	pivots, in-jamb type.		
STOPS:	20 GA. galvanized steel at head and sill.		
BLADE SEALS:	Silicone.		
JAMB SEALS:	Stainless steel.		
SLEEVE:	20 GA. galvanized steel by 15" long (1 <sup>1</sup> / <sub>2</sub> " grille clearance)		
	or 17" long $(3\frac{1}{2})$ " grill clearance) with $\frac{13}{16}$ " front flange.		
CAULKING:	Hardcast Irongrip 601 or UL-listed equivalent.		
ACTUATOR:	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.		
FINISH:	Mill.		

Sensotherm Re-Openable Heat Response Device (ESOT) for electric actuator

Sensotherm Re-Openable Heat Response Device (ESOP) for pneumatic actuator



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.

Fire Rated

Partition

Factory Installed

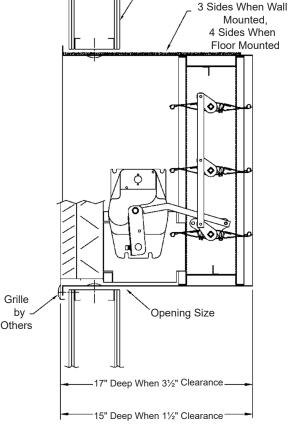
Insulation

Model 2D51 No-flow smoke detector (14" Minimum Damper Height) Short-width (less than 12") and/or short-height (less than 10") transitions 1. Damper frames are provided approximately 1/4" undersized. The addition of a sleeve and insulation will increase the size of the assembly. See II-FAGM for 2. Dampers smaller than minimum frame size require a transition. Refer to SD-TRFS. When transitioned on one-side only (which will be a damper supplied with a transition on the non-jackshafted side only), the grille size should be selected to match the damper frame size, not the transition collar size. 3. Damper with smoke detector must have a minimum sleeve of 16" (11/2" setback) 4. Dampers for horizontal installation can only be mounted in a fire barrier

Damper Sizes

constructed of masonry/concrete materials.

		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	



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

In the interest of product development, Cesco Products reserves the right to make changes without notice.



450 Riverside Dr • Wyalusing PA, 18853 Phone: 570-746-1888 • Fax: 570-746-9286 www.cescoproducts.com

# MODEL CA1GF

Page 2

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

#### Operational Ratings

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

## Operational Ratings

UL Leakage Class I

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

#### Operational 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.

