June 2025

MODEL CA1G

Page 1

Combination Fire/Smoke Damper • 11/2 Hr. Rated • Airfoil Blade • Leakage Class I • 250°F or 350°F Rated • Out-of-Barrier • Galvanized Steel

Standard Construction and Materials

Stanuaru Cur	
FRAME:	5½" x ⅛" 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 (1½" grille clearance)
	or 17" long $(3\frac{1}{2})$ " grill clearance) with $\frac{13}{16}$ " front flange.
INSULATION:	Factory installed 0.2" thick intumescent insulation on top and
	both sides (vertical mount) or all four sides (horizontal mount).
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, or mounted internally
	or externally for continous duct applications.
FINISH:	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 10") and/or short-height (less than 8") transitions

Notes

1. Damper frames are provided approximately $\frac{1}{4}$ " undersized. The addition of a sleeve and insulation will increase the size of the assembly. See SI-FAGM or SI-FACD for sizing openings.

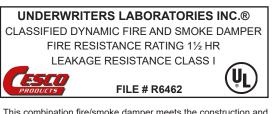
2. Dampers smaller than minimum frame size require a transition. Refer to SD-TRFS. When transitioned on one-side only (which will be a damper supplied with a transition on the non-jackshafted side only), the grille size should be selected to match the damper frame size, not the transition collar size.

3. Damper with smoke detector must have a minimum sleeve of 16" (1½" setback) or 18" (3" setback).

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

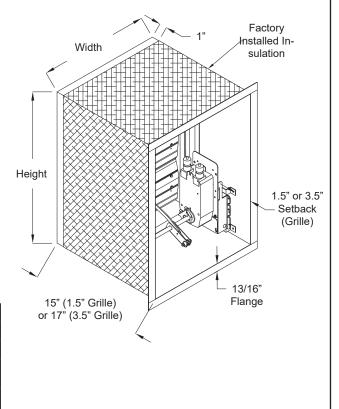
Damper Sizes

Ī		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		



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.



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.

Division of Mestek Member of AMCA	

MODEL CA1G

Page 2

Combination Fire/Smoke Damper • 11/2 Hr. Rated • Airfoil Blade • Leakage Class I • 250°F or 350°F Rated • Out-of-Barrier • Galvanized Steel

Operational Rating

Maximum Differential Pressure: 6 in. wg Maximum Velocity: 4000 fpm

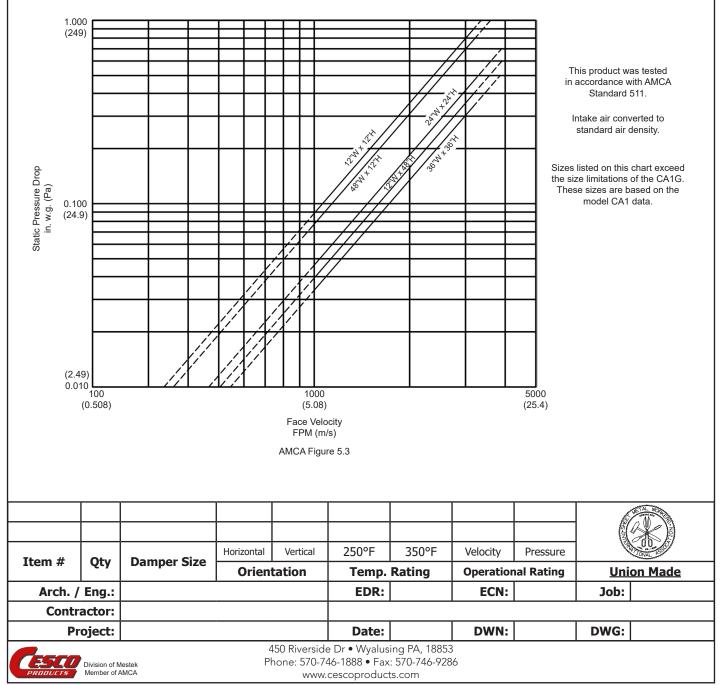
Leakage Rating

UL Leakage Class I

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

Pressure Drop

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.



June 2025

MODEL CA1G

June 2025	M	DDE	L CA1	G		SD-CA1G-25.0
Combination Fire/Smoke Damper • 1½ F	Ir. Rated • Airfoil Bla	nde • Lea	akage Class	l • 250°F or 350°F	Rated • Out-of-Barr	Page ier • Galvanized Steel
·			-			
Installation Configurations	C A	4	~ ~	2		
		1	<u>G</u>	<u>/</u>		
. <u>Base Model</u>				v		
CA = Airfoil Blade Fire-Smoke Da	amper					
CG = Single-Thickness Blade Fi						
15MA = Airfoil Blade Dynamic M 15MD = Single Thickness Blade				her		
15MS = Single Thickness Blade						
I. <u>Leakage Class</u> (Fire-Smoke Damper						
1 = UL Class-I Leakage	, only)					
2 = UL Class-II Leakage		,				
Blank = Leakage Class Not Appl	cable (Fire Dan	npers)				
I. Installation Configuration						
D = Out-of-barrier Horizontal Gri						
E = Out-of-barrier Horizontal Gril F = Out-of-barrier Vertical Grille						
G = Out-of-barrier Vertical Grille	Application, 1 ¹ /2					
J = Out-of-barrier Horizontal, Co K = Out-of-barrier Vertical, Conti						
K - Out-or-barner vertical, Conti	Iuous Duci					
/. <u>Temperature Rating</u> (Fire-Smoke Dar	npers Only)					
2 = 250°F 3 = 350°F						
Blank = Temperature Rating Not	Applicable (Fire	Damp	oers)			
IOTE						
All Installations must be in accor	dance with SI-F	AGM c	or SI-FACI	D		
Horizontal installations are only a	pproved for ma	isonry/	concrete.			
Grille Access Applications						
				1½" Grille Cle	earance	
15" (CA1G) 17" (CA1F)	 1			(CA1E		Flanged Sleeve
anged Sleeve — –				3½" Grille Cle		
				(CA1D	')	<u>+</u>
				1		
						、 15" (CA1
					···//	
5" Grille Clearance				р <mark></mark>	Į į	
5" Grille Clearance				10		WIY
(CA1F)	5					
	450 Riversio	de Dr •	Wyalusing	PA, 18853		
Division of Mestek PRODUCTS Member of AMCA	Phone: 570- www		8 • Fax: 57 products.c			
						CES-21-01-

MODEL CA1G

Page 4

Combination Fire/Smoke Damper • 11/2 Hr. Rated • Airfoil Blade • Leakage Class I • 250°F or 350°F Rated • Out-of-Barrier • Galvanized Steel

NOTE

- All Installations must be in accordance with SI-FAGM or SI-FACD.
- Horizontal installations are only approved for masonry/concrete.

