

STANDARD CONSTRUCTION

FRAME: BLADES:	
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	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 angles at head and sill
ADE SEALS:	Silicone.
AMB SEALS:	Stainless steel.
SLEEVE:	
	or 17" long (3½" grill clearance) with ¹³ /16" front flange.
INSULATION:	j
	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
	externally or internally for continuous duct applications.
FINISH:	Mill or galvanized steel.

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 10") 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.

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.
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

		2000 fpm, 4 in. w.g.	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, Louvers & Dampers reserves the right to make changes without notice.

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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 II 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.







OPERATIONAL RATINGS

Maximum Differential Pressure: 6 in. w.g. Maximum Velocity: 4000 fpm

LEAKAGE RATINGS

UL Leakage Class II

20 cfm per sq. ft. maximum @ 4 in. w.g.

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.



Sizes listed on this chart exceed the size limitations of the MA2G. These sizes are based on the model MA2 data.

This product was tested in accordance with AMCA Standard 511.

Intake air converted to standard air density.

Item #	Qty	Damper Size	Horizontal	Vertical	250°F	350°F	Velocity	Pressure	COO S	
			Orientation		Temp. Rating		Operational Rating		Union Made	
Arch. /	Eng.:				EDR:		ECN:		Job:	
Contr	actor:									
Pi	roject:				Date:		DWN:		DWG:	

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INSTALLATION CONFIGURATIONS



- I. Base Model
 - MA = Airfoil Blade Fire-Smoke Damper
 - MS = Single-Thickness Blade Fire-Smoke Damper
 - 17MA = Airfoil Blade Dynamic Multi-Blade Fire Damper
 - 17MD = Single Thickness Blade Dynamic Multi-Blade Fire Damper
 - 17MS = Single Thickness Blade Static Multi-Blade Fire Damper
- II. Leakage Class (Fire-Smoke Dampers Only)
 - 1 = UL Class-I Leakage
 - 2 = UL Class-II Leakage

Blank = Leakage Class Not Applicable (Fire Dampers)

- III. Installation Configuration
 - D = Out-of-barrier Horizontal Grille Application, 31/2" Grille Clearance
 - E = Out-of-barrier Horizontal Grille Application, 11/2" Grille Clearance
 - F = Out-of-barrier Vertical Grille Application, 3¹/₂" Grille Clearance
 - G = Out-of-barrier Vertical Grille Application, 1¹/₂" Grille Clearance
 - J = Out-of-barrier Horizontal, Continuous Duct
 - K = Out-of-barrier Vertical, Continuous Duct
- IV. Temperature Rating (Fire-Smoke Dampers Only)
 - 2 = 250°F
 - 3 = 350°F

Blank = Temperature Rating Not Applicable (Fire Dampers)

NOTE

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

GRILLE ACCESS APPLICATIONS







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NOTE

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

CONTINUOUS DUCT APPLICATIONS

