# MODEL AS1GF

## Standard Materials and Construction

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FRAME:	5½" x ¾" x 16 GA. galvanized steel hat channel.
BLADES:	16 GA. galvanized steel single thickness, 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.
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 $^{13}/_{16}$ " front flange
CAULKING:	Hardcast irongrip 601 or UL-listed equivalent.
ACTUATOR:	
	heat response device (PHRD). Factory-installed for Power-
	Open/Spring-Close (fail close) operation. External left hand
	mounted as viewed from jackshaft side of damper.
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 (< 16") and/or Short-height (< 8") Transitions

### <u>Notes</u>

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 II-FAGM 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" (1<sup>1</sup>/<sub>2</sub>" setback) or 18" (3" setback).

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

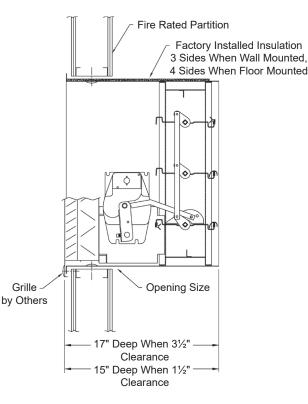
## Damper Sizes

	2000 fpm, 4 in.wg							
Orientation	Hor & Vert	Horizontal	Vertical					
Panel	Min Panel	Max Panel	Max Panel					
Rectangular	10"W x 10"H (16"W x 10"H frame)	36"W x 42"H	36"W x 42"H					
Round	8" dia. (16"W x 10"H frame)	34" dia.	34" dia.					
Oval	8"W x 8"H (16"W x 10"H frame)	34"W x 40"H	34"W x 40"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 #3225-1328:119
- 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, Arrow United reserves the right to make changes without notice. 450 Riverside Dr • Wyalusing PA, 18853 • Phone 570-746-1888 • Fax 570-746-9286 AUI-21-01-09

## **MODEL AS1GF**

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

## **Operational Ratings**

Maximum Differential Pressure: 4 in. w.g. Maximum Face Velocity: 2000 fpm

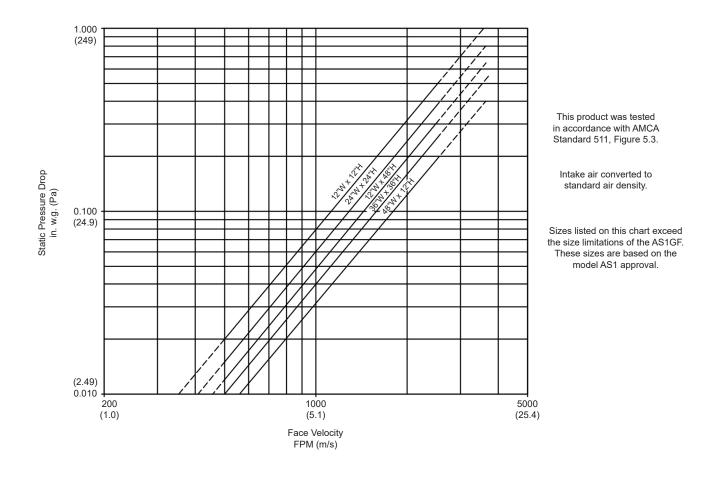
## Leakage Ratings

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.



lhana //		Damper Size	Horizontal	Vertical	250°F	350°F	Velocity	Pressure	00	
Item #	Qty		Orientation		Temp. Rating		Operational Rating		Union Made	
Arch. / Eng.:					EDR:		ECN:		Job:	
Cont	ractor:									
Project:					Date:		DWN:		DWG:	

