

# MODEL RS

Class I • 250°F or 350°F • Galvanized Steel • True Round Smoke Damper

## STANDARD MATERIALS AND CONSTRUCTION

- FRAME:** 20-GA galvanized rolled frame; 18" deep
- BLADES:** 20-GA double thickness galvanized steel (equal to 14-GA)
- AXLES:** ½" diameter galvanized or plated steel, full length
- BEARING:** Oil impregnated bronze sleeve
- STOPS:** Full open and full closed angle stops
- BLADE SEAL:** Silicone
- CAULKING:** UL approved
- FINISH:** Mill
- ACTUATOR:** Electric; Factory-installed for Power-Open/Spring-Close (fail close) operation; External left hand mounted as viewed from jackshaft side of damper

## OPTIONS

- Integral Dual position Indication (IDPI) switches
- Model SM-501 Flow-rated smoke detector; ship loose only
- Model 2151 No-flow smoke detector; ship loose only
- Rolled retaining angles
- Stainless steel bearings
- Copper tubing (for pneumatic actuators)
- Retaining Plates
- Pneumatic Actuators

## NOTES

1. Dampers are provided approximately ⅛" undersize.
2. Dampers available in 2" increments only.
3. Dampers ≥ 20" require factory mounted rings in center of damper.

## DAMPER SIZES

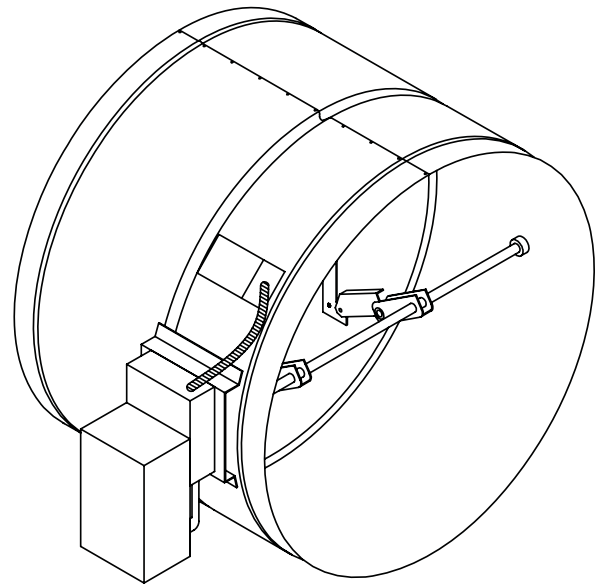
		2000 fpm, 4 in.wg		3000 fpm, 6 in.wg	
Orientation	Hor & Vert	Hor & Vert	Hor & Vert	Hor & Vert	Hor & Vert
Panels	Minimum Panel	Maximum Panel	Maximum Panel	Maximum Panel	Maximum Panel
RS	6" dia.	24" dia.	24" dia.	24" dia.	24" dia.

**UNDERWRITERS LABORATORIES INC.®**  
 CLASSIFIED DYNAMIC SMOKE DAMPER  
 LEAKAGE RESISTANCE CLASS I

abi air balance      FILE #R4708

This smoke damper meets the construction and performance requirements of:

- Underwriters Laboratories Inc. Standard 555S
- National Fire Protection Association Standards 80 and 90A
- California State Fire Marshal Listing 3230-1328:124
  
- Underwriters Laboratories Inc. Approved for dual direction airflow and dynamic conditions.
- 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.



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**Operations Ratings:**

Maximum Differential Pressure: 4 in.wg (6 in.wg depending on actuator selection)  
Maximum Velocity: 2000 fpm (3000 fpm depending on actuator selection)

**Leakage Ratings:**

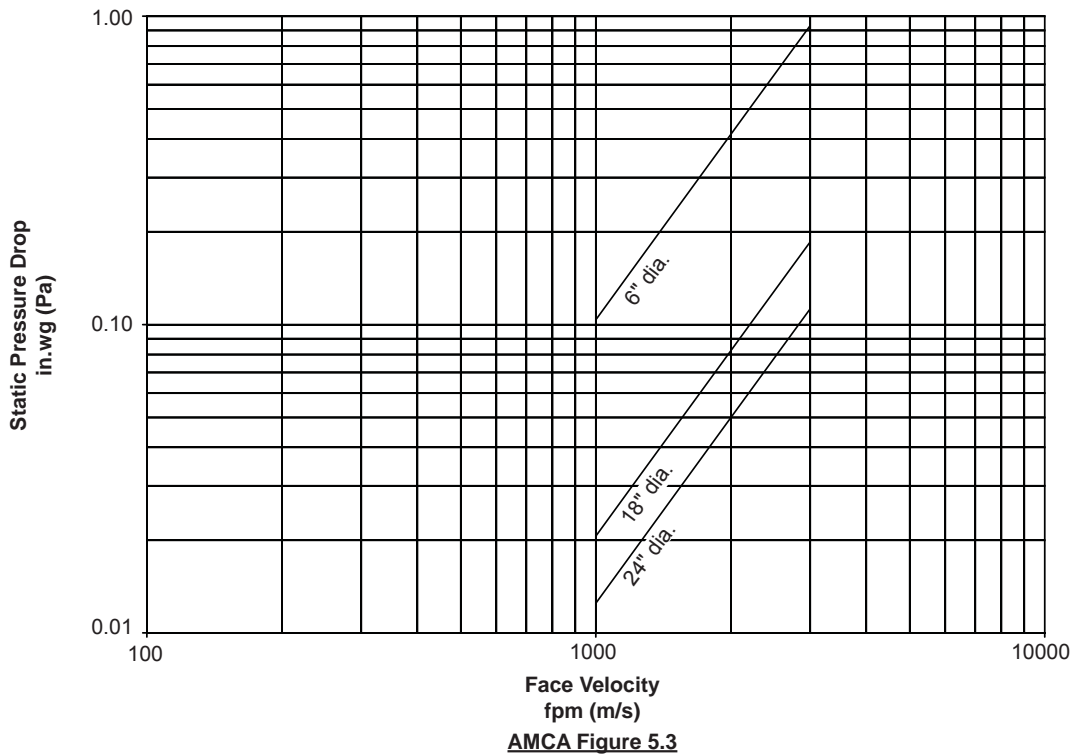
UL Class I  
8 cfm per sq. ft. maximum @ 4 in.wg

**Sound Ratings:**

None Available

**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.



This product was tested in accordance with AMCA Standard 500D.