

MODEL A1(SS)

Smoke Damper • Single Thickness Blade • Leakage Class I • 250°F • Stainless Steel

Standard Materials and Construction

- FRAME:** 5½" x ⅞" x 16 GA. galvanized steel hat channel. Flat 16 GA. galvanized steel head and sill for maximum free area on dampers less than or equal to 13" high.
- BLADES:** 16 GA. 304 stainless steel, single thickness, parallel action.
- AXLES:** Plated solid steel stub.
- BEARINGS:** 304 stainless steel.
- LINKAGE:** 304 stainless steel angle and crank plates with stainless steel pivots, in-jamb type.
- STOPS:** 18 GA. 304 stainless steel at head and sill.
- BLADE SEALS:** Silicone.
- JAMB SEALS:** Stainless steel.
- SLEEVE:** Minimum 20 GA. stainless steel by 18" long (sizes greater than 84" wide or 84" high require minimum 18 GA.).
- CAULKING:** Hardcast ironrip 601 or UL-listed equivalent.
- ACTUATOR:** Electric or pneumatic. Factory-installed for power-open/spring-close (fail close) operation. External left-hand mounted as viewed from jackshaft side of damper.
- FINISH:** Mill on stainless steel.

Options

- Type 316 Stainless Steel (where available)
- External right hand actuator mounting location
- Integral Dual Position Indication (IDPI) switches
- Model SM-501 Flow-rated smoke detector (10" minimum damper height)
- Tab-Lock retaining angles
- Copper tubing (for pneumatic actuators)
- Sleeves of various depths and gauge thicknesses
- Round or oval transitions
- Short-width (less than 16") and/or short-height (less than 8") transitions
- Power-close/spring-open actuation (restrictions apply)

Notes

1. Damper frames are provided approximately ¼" undersized. The addition of a sleeve will increase the size of the assembly.
2. Damper with smoke detector must have a minimum sleeve of 19" (10½" on the actuator side and 3" on the non-actuator side).
3. Unless ordered with a smoke detector, the 3" sleeve setback on the non-jackshaft side will increase when sleeve lengths greater than 18" are ordered. Custom non-jackshaft side setback dimensions must be specified on order. When ordered with a smoke detector, additional sleeve length is added to jackshaft side. If ordered with smoke detector and additional sleeve length (beyond requirements of notes 2 and 3), additional sleeve length will be added to jackshaft side unless custom setback dimension is otherwise specified on order.

Damper Sizes

		2000 fpm, 4 in. w.g.		3000 fpm, 4 in. w.g.	
Orientation	Horizontal & Vertical	Horizontal & Vertical		Horizontal & Vertical	
Panels	Min. Panel Size	Max Panel 250°	Max Assy 250°	Max Panel 250°	Max Assy 250°
Rectangular	4"W x 4"H (16"W x 8"H frame)	36"W x 36"H	108"W x 36"H	36"W x 36"H	108"W x 36"H
Round	4" dia. (16"W x 8"H frame)	34" dia.	N/A	34" dia.	N/A
Oval	4"W x 4"H (16"W x 8"H frame)	34"W x 34"H	106"W x 34"H	34"W x 34"H	106"W x 34"H

* Dampers smaller than minimum frame size require a transitions. Reference SD-TRFS.

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

FILE # R19235

This smoke damper meets the construction and performance requirements of:

- Underwriters Laboratories Inc. Standard 555S
- National Fire Protection Association Standards 80, 90A, 92, 101, 105
- ICC's International Building Code
- California State Fire Marshal Listing #3230-1328:106
- New York City MEA Listing 112-99-M
- 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 controlled by a smoke detection system.



