



Combination Fire/Smoke Damper • 1½ Hr. Rated • Single Thickness Blade • Leakage Class I • 250°F or 350°F Rated • Stainless Steel

Standard Construction and Materials

- FRAME:** 5½" x 7⁄8" x 16 GA. 304 stainless steel hat channel. A flat head and sill are used for sizes up to 13" high.
- BLADES:** 16 GA. galvanized steel single thickness, parallel action.
- AXLES:** 304 stainless steel stub.
- BEARINGS:** 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. 304 stainless steel by 18" long (sizes greater than 84" wide or 84" high require minimum 18 GA.)
- CAULKING:** Hardcast iron grip 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. External left hand mounted as viewed from jackshaft side of damper.
- FINISH:** Mill on 304 stainless steel.

UNDERWRITERS LABORATORIES INC.®
 CLASSIFIED DYNAMIC FIRE AND SMOKE DAMPER
 FIRE RESISTANCE RATING 1½ HR
 LEAKAGE RESISTANCE CLASS I

FILE # R6462

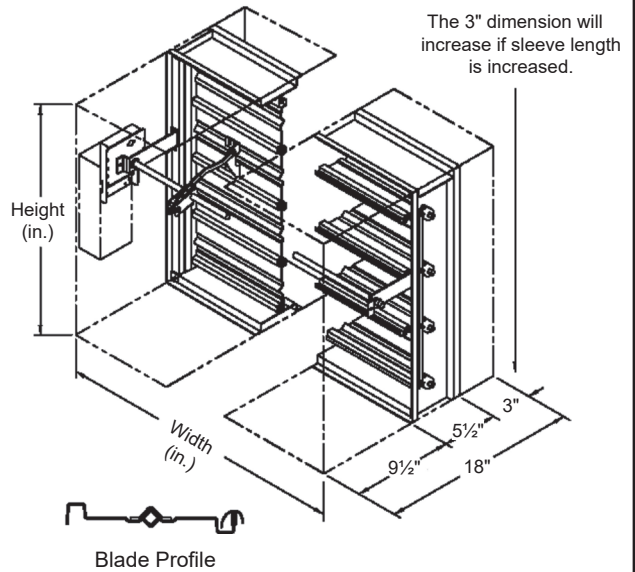
- Underwriters Laboratories Inc. Standards 555 and 555S
- National Fire Protection Association Standards 80 and 90A,
- ICC's International Building Code
- New York City MEA Listing #111-99-M
- California State Fire Marshal Listing #3225-1328:119
- Underwriters Laboratories Inc. Approved for dual direction 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.
- Actuators must be arranged to operate automatically, must fail closed upon loss of power, and must be controlled by a smoke detection system.

Options

- Type 316 Stainless Steel (where available)
- External right hand actuator mounting location.
- Integral Dual Position Indication (IDPI) switches.
- Sensotherm re-openable heat response device (ESOT) for electric actuator.
- Sensotherm re-openable heat response device (PSOT) for pneumatic actuator.
- 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.

Notes

1. Damper frames are provided approximately ¼" undercut. 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. Dampers for horizontal installation can only be mounted in a fire barrier constructed of masonry/concrete materials.
4. On dampers with all internal actuators, minimum height for factory mounted smoke detectors to be 14".



Damper Sizes

Orientation	Horz & Vert	2000 fpm, 4 in. w.g.			3000 fpm, 4 in. w.g.		
		Horizontal	Vertical		Horizontal	Vertical	
Panels	Min Panel	Max Panel	Max Panel	Max Assembly	Max. Panel	Max Panel	Max Assembly
Rectangular	4"W x 4"H (16"W x 8"H frame)	24"W x 24"H	36"W x 32"H	108"W x 32"H	24"W x 24"H	36"W x 32"H	108"W x 32"H
Round	4" dia. (16"W x 6"H frame)	22" dia.	30" dia.	N/A	22" dia.	30" dia.	N/A
Oval	4"W x 4"H (16"W x 6"H frame)	22"W x 22"H	34"W x 30"H	106"W x 30"H	22"W x 22"H	34"W x 30"H	106"W x 30"H

* Dampers smaller than the minimum frame size require a transition. Reference SD-TRFS for details.

For handwritten orders, use the schedule block on page 2.

In the interest of product development, Cescro Products reserves the right to make changes without notice.



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