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

## Standard Construction and Materials

**FRAME:**  $5\frac{1}{2}$ " x  $\frac{1}{8}$ " x 16 GA. 304 stainless steel hat channel. Flat 16 GA.

head and sill are used for sizes 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 angles 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 irongrip 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 8") and/or short-height (less than 8") transitions

Power-close/spring-open actuation (restrictions apply)

#### Notes

- 1. Damper frames are provided approximately  $\frac{1}{4}$ " 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" ( $10\frac{1}{2}$ " on the actuator side and 3" on the non-actuator side).
- 3. On dampers with all internal actuators, minimum height for factory mounted smoke detectors to be 14".

# UNDERWRITERS LABORATORIES INC.®

CLASSIFIED DYNAMIC SMOKE DAMPER

LEAKAGE RESISTANCE CLASS II

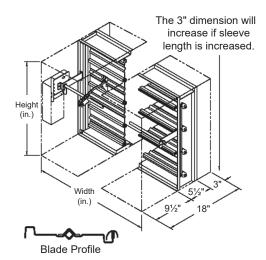


FILE # R6462



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
- New York City MEA Listing #112-99-M
- California State Fire Marshal Listing #3230-1328:106
- Underwriters Laboratories Inc. Approved for dual direction airflow and dynamic conditions.
- Underwriters Laboratories Inc. Classified for use in smoke control systems for Leakage Class II and 250°F.
- Actuators must be controlled by a smoke detection system.



		C·						
	Dai	mper Sizes	2000 fpm, 4 in. w.g.		3000 fpm, 4 in. w.g.			
ſ	Orientation	Horizontal & Vertical	Horizontal & Vertical		Horizontal & Vertical			
	Panels	Min. Panel Size	Max Panel Max Assy 250° 250°		Max Panel 250°	Max Assy 250°		
	Rectangular	4"W x 4"H (8"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. (8"W x 8"H frame)	34" dia.	N/A	34" dia.	N/A		
	Oval	4"W x 4"H (8"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.

										TAL WA
l+ #	04	y Damper Size	Horizontal	Vertical	250	)°F	Velocity	Pressure	00	
item #	Item # Qty		Orientation		Temp.	o. Rating Operation		nal Rating	<u>Uni</u>	on Made
Arch.	/ Eng.:				EDR:		ECN:		Job:	
Contractor:										
Р	roject:				Date:		DWN:		DWG:	

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



450 Riverside Dr • Wyalusing PA, 18853 Phone: 570-746-1888 • Fax: 570-746-9286 www.cescoproducts.com Smoke Damper • Single Thickness Blade • Leakage Class II • 250°F • Stainless Steel

## Operational Rating

Maximum Differential Pressure: 4 in. w.g.

Maximum Face Velocity: 2000 fpm (3000 fpm for selected size/actuator combinations)

## Leakage Rating

UL Class I

10 cfm per sq.ft. maximum @ 1 in. w.g. 20 cfm per sq.ft. maximum @ 4 in. w.g.

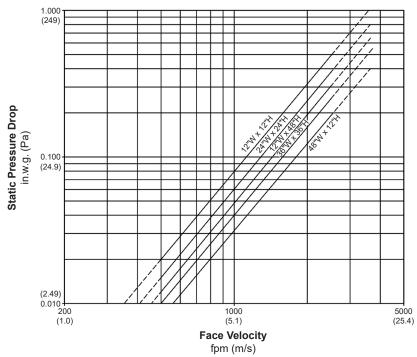
## Sound Rating

The Noise Criterion data below was tested in accordance with ASTM E477.99 in the center octave band.

Noise Criterion (NC)								
Damper	Velocity (fpm)							
Size	1000	2000	3000	4000				
12"W x 12"H	31	53	64	71				
24"W x 24"H	33	54	65	n/a				

### Sound Rating

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.



Tested in accordance with AMCA Standard 500D, Figure 5.3 Intake air converted to standard air density.



Cesco Products certifies that the SG2(SS) damper shown here is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Performance Ratings only.

