September 2020

MODEL SG2

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Smoke Damper • Single Thickness Blade • Leakage Class II • 250°F or 350°F • Galvanized Steel

Standard Construction and Materials FRAME: 51/1" x 1/8 GA galvanized steel t

FRAME:	51/2" x 1/8" 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. galvanized steel, single thickness, parallel action.
AXLES:	Plated solid steel stub.
BEARINGS:	Oil impregnated bronze.
LINKAGE:	Plated steel angle and crank plates with stainless steel pivots,
	in-jamb type or on-blade type.
STOPS:	18 GA. galvanized steel angles at head and sill.
BLADE SEALS:	Silicone.
JAMB SEALS:	Stainless steel.
SLEEVE:	Minimum 20 GA. galvanized 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. External left hand mounted
	as viewed from jackshaft side of damper.
FINISH:	Mill.

Options

Exact size (no undercut) Sleeves and transitions

Actuators - 120V, 24V, 230V or pneumatic

Right hand and/or internal actuator mounting locations (restrictions apply)

Dual Position Indication (IDPI) switches

Model SM-501 flow-rated smoke detector.

Model 2151 no-flow smoke detector (12" minimum damper height)

Momentary test switch Remote test box

Copper tubing (for pneumatic actuators)

Transformers

Tab-lock retaining angles - 1 or 2 sets

Stainless steel bearings

Stainless steel axles

Security bars

Short-width (less than 8") and/or short-height (less than 6") transitions

Notes

1. Nominal deductions will be made to the opening size given.

2. Dampers greater than or equal to 12" in height with factory mounted SM-501 smoke detectors require a minimum 19" deep sleeve (10¹/₂" on the actuator side). Detectors will be mounted on the side of the damper opposite actuator.

3. Dampers less than 12" in height with factory mounted SM-501 smoke detectors require a minimum 20 deep sleeve ($11\frac{1}{2}$ " on the actuator side). Detectors will be mounted on the bottom or top of damper.

4 Smoke detectors can be ordered for field mounting with standard 18" deep sleeve.

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

Damper Sizes 2000 fpm, 4 in. w.g. 3000 fpm, 4 in. w.g. Horizontal & Vertical Orientation Horizontal & Vertical Horizontal & Vertical Actuator Max Panel Max Panel Max Assv Max Assy Max Panel Max Assv Response Min. Panel Size Panels 250° 350° 250° 350° 250° 250° 4"W x 4"H 144"W x 70"H 128"W x 62"H 36"W x 48"H Rectangular PO/SC 36"W x 48"H 36"W x 36"H 108"W x 36"H (8"W x 6"H frame) 288"W x 35"H 256"W x 31"H 4"W x 4"H Rectangular SO/PC 36"W x 36"H 36"W x 36"H 108"W x 36"H 108"W x 36"H N/A N/A (8"W x 6"H frame) 4" dia PO/SC Round 34" dia. 34" dia. 68" dia. 60" dia. 34" dia. N/A (8"W x 6"H frame) 4"W x 4"H 45 sq.ft. PO/SC 36"W x 46"H 36"W x 46"H 106"W x 60"H 34"W x 34"H 106"W x 24"H Oval 106"W x 68"H (8"W x 6"H frame)

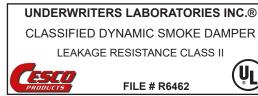
* Dampers smaller than minimum frame size require a transitions. Reference SD-TRFS.

** For sizes smaller than 16"w x 8"h, airfoil blades will be supplied.

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

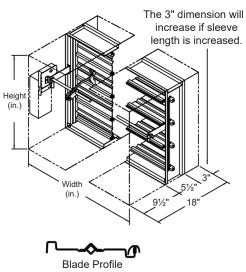


450 Riverside Dr • Wyalusing PA, 18853 Phone: 570-746-1888 • Fax: 570-746-9286 www.cescoproducts.com



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
- 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 or 350°F.
- · Actuators must be controlled by a smoke detection system.



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Operational Ratings

Maximum Differential Pressure: 4 in.wg

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

Leakage Ratings

UL Class I

10 cfm per sq.ft. maximum @ 1 in.wg

20 cfm per sq.ft. maximum @ 4 in.wg

Sound Ratings

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

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

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.

