

# abi air balance inc.

A Mestek Company

**Job:**  
Master Smoke Dampers

**Quote Number:**  
189211

**Sold To:**

**Ship To:**

Name	Description	
Fire/Smoke or Sm Fire/Smoke or Smoke Damper		
Qty	Size	Description
36	1600.0000 x 700.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 800 x 700 1.120 SqM
	Frame Size	40640 x 17780
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	18.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	2 x Honeywell MS4109F1010
	[Mark Tag]	SD-01.

Qty	Size	Description
6	600.0000 x 300.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(1) 600 x 300 0.180 SqM
	Frame Size	15240 x 7620
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	18.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG



Motor 1 x Honeywell MS4104F1010  
[Mark Tag] SD-02.

Qty	Size	Description
3	400.0000 x 400.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(1) 400 x 400 0.160 SqM
	Frame Size	10160 x 10160
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4104F1010
	[Mark Tag]	SD-03.

Qty	Size	Description
4	1600.0000 x 600.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 800 x 600 0.960 SqM
	Frame Size	40640 x 15240
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4120F1006
	[Mark Tag]	SD-04.

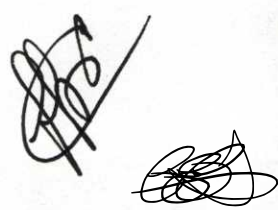
Qty	Size	Description
1	1400.0000 x 500.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 700 x 500 0.700 SqM
	Frame Size	35560 x 12700
	Mfg Code	S 1 H 2 5 0 - - - - -



Material	Galvanized Steel (Standard)
Sleeve Type	Rectangular Sleeve
Sleeve Gauge and Length	19.000 x 20 Ga
Transition Type	No Transition
Jamb Seals	Stainless Steel
Actuator Type	Electric
Actuator Voltage	120 Volt
Actuator Action	PO/SC Normally Closed Two Position Spring Return
Actuator Location	External Left (Out of Airstream)
Velocity	2000 fpm
Pressure	4 in WG
Motor	1 x Honeywell MS4120F1006
[Mark Tag]	SD-05.

Qty	Size	Description
3	1400.0000 x 600.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 700 x 600 0.840 SqM
	Frame Size	35560 x 15240
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4120F1006
	[Mark Tag]	SD-06.

Qty	Size	Description
1	1800.0000 x 600.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 900 x 600 1.080 SqM
	Frame Size	45720 x 15240
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)





Velocity	2000 fpm
Pressure	4 in WG
Motor	1 x Honeywell MS4120F1006
[Mark Tag]	SD-07.

Qty	Size	Description
3	1400.0000 x 700.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 700 x 700 0.980 SqM
	Frame Size	35560 x 17780
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4120F1006
	[Mark Tag]	SD-08.

Qty	Size	Description
1	1200.0000 x 800.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 600 x 800 0.960 SqM
	Frame Size	30480 x 20320
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4120F1006
	[Mark Tag]	SD-09.

Qty	Size	Description
2	200.0000 x 200.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(1) 203.2 x 200 0.040 SqM






Frame Size	5161.28 x 5080
Mfg Code	S 1 H 2 5 0 - - - - -
Material	Galvanized Steel (Standard)
Sleeve Type	Rectangular Sleeve
Sleeve Gauge and Length	19.000 x 20 Ga
Transition Type	B-Pan Transition Both Sides (For Unit Less than Minimum Size)
Jamb Seals	Stainless Steel
Actuator Type	Electric
Actuator Voltage	120 Volt
Actuator Action	PO/SC Normally Closed Two Position Spring Return
Actuator Location	External Left (Out of Airstream)
Velocity	2000 fpm
Pressure	4 in WG
Motor	1 x Honeywell MS4104F1010
[Mark Tag]	SD-10.

Qty	Size	Description
4	500.0000 x 300.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(1) 500 x 300 0.150 SqM
	Frame Size	12700 x 7620
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4104F1010
	[Mark Tag]	SD-11.

Qty	Size	Description
2	500.0000 x 500.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(1) 500 x 500 0.250 SqM
	Frame Size	12700 x 12700
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt




Actuator Action	PO/SC Normally Closed Two Position Spring Return
Actuator Location	External Left (Out of Airstream)
Velocity	2000 fpm
Pressure	4 in WG
Motor	1 x Honeywell MS4104F1010
[Mark Tag]	SD-12.

Qty	Size	Description
5	400.0000 x 300.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(1) 400 x 300 0.120 SqM
	Frame Size	10160 x 7620
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4104F1010
	[Mark Tag]	SD-13.

Qty	Size	Description
3	800.0000 x 500.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(1) 800 x 500 0.400 SqM
	Frame Size	20320 x 12700
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4109F1010
	[Mark Tag]	SD-14.

Qty	Size	Description
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1

600.0000 x 400.0000 (mm)	S1H250 - Smoke Dampers
Panel Qty and Size for Each	(1) 600 x 400 0.240 SqM
Frame Size	15240 x 10160
Mfg Code	S 1 H 2 5 0 - - - - -
Material	Galvanized Steel (Standard)
Sleeve Type	Rectangular Sleeve
Sleeve Gauge and Length	19.000 x 20 Ga
Transition Type	No Transition
Jamb Seals	Stainless Steel
Actuator Type	Electric
Actuator Voltage	120 Volt
Actuator Action	PO/SC Normally Closed Two Position Spring Return
Actuator Location	External Left (Out of Airstream)
Velocity	2000 fpm
Pressure	4 in WG
Motor	1 x Honeywell MS4104F1010
[Mark Tag]	SD-15.

Qty	Size	Description
2	1100.0000 x 500.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 550.02 x 500 0.550 SqM
	Frame Size	27940 x 12700
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4109F1010
	[Mark Tag]	SD-16.

Qty	Size	Description
1	2000.0000 x 550.0200 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(3) 666.68 x 550.02 1.100 SqM
	Frame Size	50800 x 13970.508
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel



Actuator Type	Electric
Actuator Voltage	120 Volt
Actuator Action	PO/SC Normally Closed Two Position Spring Return
Actuator Location	External Left (Out of Airstream)
Velocity	2000 fpm
Pressure	4 in WG
Motor	1 x Honeywell MS4120F1006
[Mark Tag]	SD-17.

Qty	Size	Description
6	400.0000 x 200.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(1) 400 x 200 0.080 SqM
	Frame Size	10160 x 5080
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4104F1010
	[Mark Tag]	SD-18.

Qty	Size	Description
1	1800.0000 x 800.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 900 x 800 1.440 SqM
	Frame Size	45720 x 20320
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	2 x Honeywell MS4109F1010
	[Mark Tag]	SD-19.



Qty	Size	Description
1	350.0200 x 300.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(1) 350.02 x 300 0.105 SqM
	Frame Size	8890.508 x 7620
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4104F1010
	[Mark Tag]	SD-20.

Qty	Size	Description
1	2000.0000 x 500.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(3) 666.68 x 500 1.000 SqM
	Frame Size	50800 x 12700
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PO/SC Normally Closed Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4120F1006
	[Mark Tag]	SD-21.

Qty	Size	Description
1	500.0000 x 300.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(1) 500 x 300 0.150 SqM
	Frame Size	12700 x 7620
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga






Transition Type	No Transition
Jamb Seals	Stainless Steel
Actuator Type	Electric
Actuator Voltage	120 Volt
Actuator Action	PO/SC Normally Closed Two Position Spring Return
Actuator Location	External Left (Out of Airstream)
Velocity	2000 fpm
Pressure	4 in WG
Motor	1 x Honeywell MS4104F1010
[Mark Tag]	SD-22.

Qty	Size	Description
1	1200.0000 x 1000.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 600 x 1000 1.200 SqM
	Frame Size	30480 x 25400
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PC/SO Normally Open Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	2 x Honeywell MS4120F1006
	[Mark Tag]	SD-23.

Qty	Size	Description
1	1100.0000 x 1000.0000 (mm)	S1H250 - Smoke Dampers
	Panel Qty and Size for Each	(2) 550.02 x 1000 1.100 SqM
	Frame Size	27940 x 25400
	Mfg Code	S 1 H 2 5 0 - - - - -
	Material	Galvanized Steel (Standard)
	Sleeve Type	Rectangular Sleeve
	Sleeve Gauge and Length	19.000 x 20 Ga
	Transition Type	No Transition
	Jamb Seals	Stainless Steel
	Actuator Type	Electric
	Actuator Voltage	120 Volt
	Actuator Action	PC/SO Normally Open Two Position Spring Return
	Actuator Location	External Left (Out of Airstream)
	Velocity	2000 fpm
	Pressure	4 in WG
	Motor	1 x Honeywell MS4120F1006




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Francisco Palacios Fernández

6/18/2018.



**STANDARD MATERIALS AND CONSTRUCTION**

- FRAME:** 5½" x 7½" x 16-GA galvanized steel hat channel; Flat 16-GA galvanized head and sill for maximum free area on dampers ≤ 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.

**UNDERWRITERS LABORATORIES INC.®**

CLASSIFIED DYNAMIC SMOKE DAMPER

LEAKAGE RESISTANCE CLASS I

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
- 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.

**OPTIONS**

Exact Size (no undercut)

Sleeve - Transition

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 (&lt; 8") and/or Short-Height (&lt; 6") Transitions

Round or Oval Transitions

**NOTES**

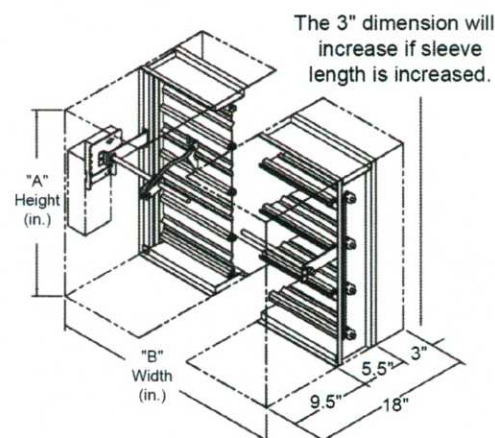
1. "A" width and "B" height are opening dimensions. Dampers are provided approximately ¼" undersize, unless otherwise specified.
2. Factory-installed Power-Open/Spring-Close (fail close) actuator operation only available on damper models rated for 250°F heat resistance, at 2000 fpm air velocity and 4 in. w.g. of differential pressure. Damper size cannot exceed 36"W x 36"H for a single panel or 108"W x 36"H for a complete assembly.
3. Damper ≥ 12" in height with factory mounted SM-501 smoke detectors require a minimum 19" deep sleeve (10.5" on the actuator side); detectors will be mounted on the side of the damper opposite actuator.
4. Damper < 12" in height with factory mounted SM-501 smoke detectors require a minimum 20" deep sleeve (11.5" on the actuator side); detectors will be mounted on the bottom or top of damper.
5. Smoke Detectors can be ordered for field mounting with standard 18" deep sleeve.

**DAMPER SIZES**

Orientation	Horizontal & Vertical	2000 fpm, 4 in. w.g.				3000 fpm, 4 in. w.g.	
		Horizontal & Vertical				Horizontal & Vertical	
Panels	Min. Panel Size	Max Panel 250°	Max Panel 350°	Max Assy 250°	Max Assy 350°	Max Panel 250°	Max Assy 250°
Rectangular	4"W x 4"H (8"W x 6"H frame)	36"W x 48"H	36"W x 48"H	144"W x 70"H 288"W x 35"H	128"W x 62"H 256"W x 31"H	36"W x 36"H	108"W x 36"H
Round	4" dia. (8"W x 6"H frame)	34" dia.	34" dia.	68" dia.	60" dia.	34" dia.	N/A
Oval	4"W x 4"H (8"W x 6"H frame)	36"W x 46"H	36"W x 46"H	45 sq.ft. 105"W x 68"H	106"W x 60"H	34"W x 34"H	106"W x 24"H

\* 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.

**See the schedule block on the next page for handwritten orders.**

In the interest of product development, Air Balance reserves the right to make changes without notice.

air balance

Dampers Louvers  
UL Life Safety Products  
Division of Mestek  
Member of AMCA

airbalance.com



## Operations Rating:

Maximum Differential Pressure: 4 in.wg

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

## Leakage Rating:

UL Class I

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

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

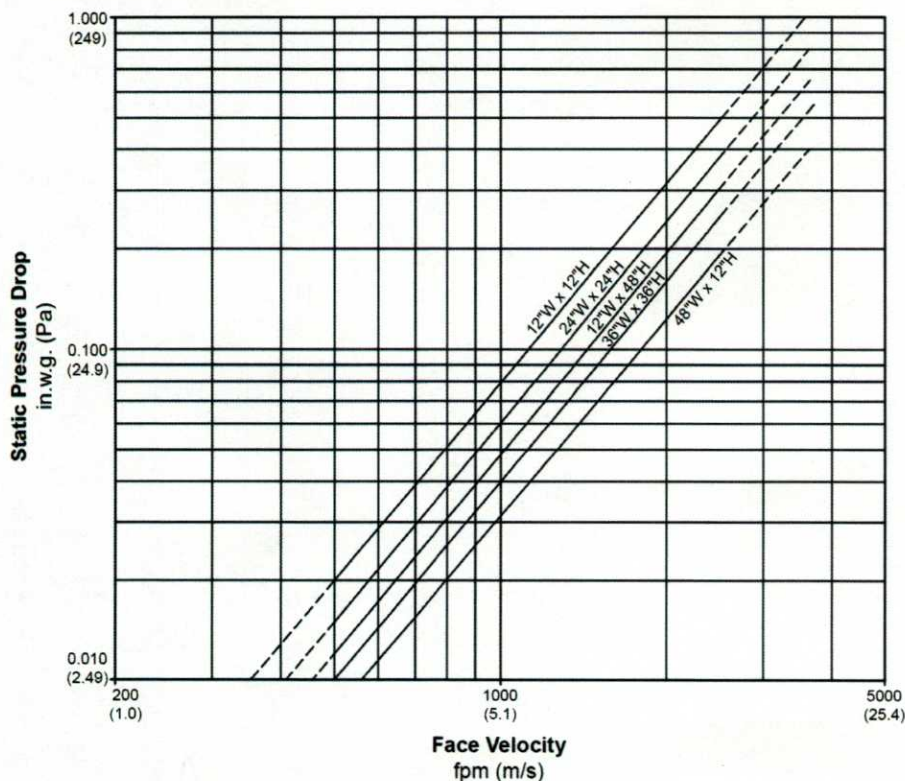
## Sound Ratings:

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

Damper Size	Noise Criterion (NC)			
	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.



AMCA Figure 5.3



Air Balance certifies that the model S1H 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.

Item #	Qty	Width	Height	Temp Rating	250°	350°	 <b>Union Made</b>
		Damper Size					
Arch. / Eng. :				EDR:	ECN:	Job:	
Contractor:							
Project:				Date:	DWN:	DWG:	

  
Francisco Polanco Fernandez

6/18/2018



