



Fire/Smoke Damper

MT1

Class I • 3 Hour • 250°F or 350°F • Galvanized Steel • Single Thickness Blade • UL Classified Damper

STANDARD CONSTRUCTION

FRAME: 5½" x 1/6-GA galvanized steel hat channel 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 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

OPTIONS

Exact Size

Sleeve - Transition

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

Right Hand and/or Internal Actuator Mounting Locations (Restrictions Apply)

Integral Dual Position Indication (IDPI) Switches

Sensotherm Re-Openable Heat Response Device for Electric Actuator (ESOT)
Sensotherm Re-Openable Heat Response Device for Pneumatic Actuator (SPOT)
Model SM-501 Flow-Rated Smoke Detector (10" Minimum Damper Height)

Model 2151 No-Flow Smoke Detector (12" Minimum Damper Height)

Remote Test Box Copper Tubing Transformers

Tab-Lock Retaining Angles - 1 or 2 Sets

Bearings - Stainless Steel Axle - Stainless Steel Security Bars

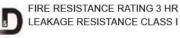
Short-Width (<16") and/or Short-Height (<8") Transitions

NOTES

- 1. "A" width and "B" height are opening dimensions. Dampers are provided approximately $\frac{1}{4}$ " undersize.
- 2. Damper with smoke detector must have a minimum sleeve of 19" (10.5" 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.

UNDERWRITERS LABORATORIES INC.®

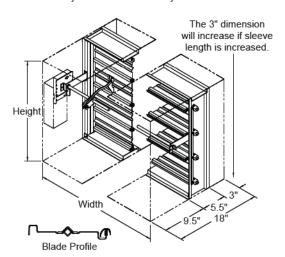
CLASSIFIED DYNAMIC FIRE AND SMOKE DAMPER





This combination fire/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 #3225-1328:115
- Underwriters Laboratories Inc. Approved for dual direction airflow and dynamic conditions.
- Underwriters Laboratories Inc. Classified for use in fire resistive ratings of 3 hours and longer
- Underwriters Laboratories Inc. Classified for use in smoke control systems for Leakage Class I and 250°F or 350°F.
- Actuators must be arranged to operate automatically, must fail closed upon loss of power, and must be controlled by a smoke detections system.



DAMPER SIZE

		2000 fpm, 4 in.wg			3000 fpm, 4 in.wg			
Orientation	Hor & Vert	Horiz	Horizontal Vertical		tical	Hor & Vert	Horizontal	Vertical
Panels	Minimum Panel	Max Panel	Max Assy	Max Panel	Max Assy	Max Panel 250°	Max Assy 250°	Max Assy 250°
Rectangular	4"W x 4"H (16"W x 8"H frame)	30"W x 48"H 36"W x 30"H	60"W x 48"H	36"W x 48"H 42"W x 36"H	108"W x 48"H	36"W x 36"H	60"W x 36"H	108"W x 36"H
Round	4" dia. (16"W x 8"H frame)	28" dia.	47" dia.	34" dia.	46" dia.	34" dia.	34" dia.	34" dia.
Oval	4"W x 4"H (16"W x 8"H frame)	28"W x 46"H 34"W x 28"H	58"W x 47"H	34"W x 46"H 40"W x 34"H	106"W x 46"H	34"W x 34"H	58"W x 34"H	106"W x 34"H

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





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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

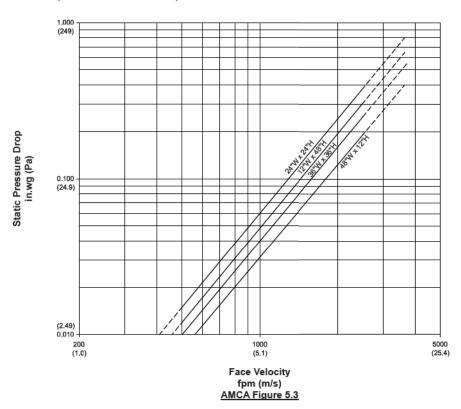
Sound Ratings:

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

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						

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.



This product was tested in accordance with AMCA Standard 500D.

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