

# Series 5050 Combination Fire & Smoke Dampers

## 1 1/2 Hour Class I/II/III Leakage

*For Use in Static or Dynamic Systems*

### Application



Series 5050 is a combination fire & smoke damper with a 1 1/2 Hour UL555 fire rating available with your choice of Class I, II, or III UL555S Leakage rating. This damper utilizes a thermally responsive electric switch to allow for the return spring of the specified actuator to close the damper upon elevated temperature. The damper may be installed vertically or horizontally for use in barriers requiring both fire and leakage protection. This damper has been evaluated with bi-directional airflow, and is rated to 2000 FPM and 4" static pressure in compliance with UL555 6th edition and UL555S 4th edition.

Available Models	
Model	Description
5050-1 / Class I	1 1/2 HR Fire
5050-2 / Class II	1 1/2 HR Fire
5050-3 / Class III	1 1/2 HR Fire



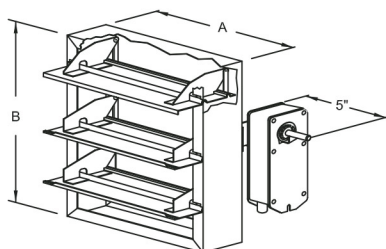
Internally mounted actuator

Series 5050 meets or complies with the following as a smoke, fire or combination fire & smoke damper:

- **CA State Fire Marshall** Fire listing #3225-1518:100  
Leakage listing #3230-1518:106
- **NFPA 90A & B, 92A & B**
- **All major building codes, including BOCA, ICBO/UBC, SBCCI & the ICC International Code**

Models 5050-1 / 5050-2 / 5050-3 UL Listings – File #R6189

- **UL555 1 1/2 Hour Fire**
- **UL555S Class I/II/III @ 250°F or 350°F**



A dim. is always width of blades

#### Series 5050 Standard Sizes

See actuator section, pg. 8 for internal mount minimums and pressure drop information

Fire Rating	Leakage Rating	Min. Vertical or Horizontal	Max. Vertical	Max Horizontal
1 1/2 Hour Fire	Class I/II/III @ 250°F	6" x 6"	120" x 84"	144" x 90"
1 1/2 Hour Fire	Class I/II/III @ 350°F	6" x 6"	120" x 84"	144" x 90"

Dampers will be fabricated 1/4" under ordered dimensions unless otherwise specified.

### Standard Construction

- **Frame**  
4" Wrap around full channel frame – 16 GA Galvanized Steel
- **Blades**  
22 GA Galvanized Steel, Modified Triple-V Design
- **Bearings**  
Integral Curl in Frame Design
- **Linkage**  
14 GA Galvanized, on Blade Type (in airstream)
- **Seals**  
Compression type silicone seals (Class I/II ONLY)
- **Heat Responsive Device**  
Electric-Thermal Disc, 165°F standard, 212°, 250° or 350°F optional
- **Sealant**  
UL Certified silicone caulk (sleeved units only)

### Options & Accessories

- Dual Blade Position Indicator Switches (Switch#1)
- Factory Supplied Sleeves – 18 or 14 Gauge, 18" or 24" deep (For other gauges and depths, contact your local rep. Dampers with external mounted actuators are available with a 18 gauge side plate, if no factory sleeve is desired)
- Factory supplied 'EZ Mount' mounting angles
- Single or Dual Blade stiffeners - for strength & stability of wider units in high pressure systems

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