MULTI-BLADE LOW LEAKAGE FIRE DAMPERS AIRFOIL BLADES • GALVANIZED OR STAINLESS STEEL USCG TYPE APPROVED FOR CLASS A-60 DIVISIONS MODELS: 1201-MDG AND 1201-MDS

Nailor Industries Inc.

APPLICATION:

Models 1201-MDG (galvanized) and 1201-MDS (stainless steel) are multi-blade low leakage fire dampers for use in marine applications which require USCG approval for installation in Class A-60 divisions.

QUALIFICATIONS:

- **International Maritime Organization Fire Test Procedures Code USCG Type Approval A-60. Approval Number 164.139/8/0.**
- **European Wheel Mark 1408/05.**
- **Southwest Research Institute Test report No. 01.29740.01.001a, 01.29740.01.001b**
- **Leakage: Less than 4 cfm/sq. ft. @ 1" w.g.**

STANDARD SPECIFICATION:

FRAME: 5" x 7/8" x 16 ga. (127 x 22 x 1.6) galvanized or stainless steel hat channel.

BLADES: 14 ga. (2.0) equivalent galvanized or stainless steel formed airfoil on 5 1/2" (140) centers. Opposed blade action.

LINKAGE: Concealed in frame. 12 ga. (2.7) plated or stainless steel.

AXLES: 1/2" (13) dia. plated or stainless steel double bolted to blade.

BEARINGS: 1/2" (13) dia. self-lubricating oilite bronze or sintered stainless steel.

JACKSHAFT: 1/2" (13) dia. plated or stainless steel. CCW rotation to open.

JAMB SEALS: Stainless steel.

FUSIBLE LINK: 165°F (74°) standard.

SLEEVE: 12" (305) long x 16 ga. (1.6) with 2" (51) flange on both ends. 10" (254) through 24" (610) long and 16 ga. (1.6) through 10 ga. (3.51) available. 12" (305) min. with MLS-300. Flange widths from 1" (25) to 3" (76) available.

MINIMUM SIZE: Vertical or Horizontal mount: 8" x 8" (200 x 200).

MAXIMUM SIZE: Single Section
Vertical or Horizontal mount: 36" x 36" (915 x 915).
Multiple Section Assembly
Vertical or Horizontal mount: 72" x 36" (1830 x 915).

BASE MODEL SELECTION:

- ❑ **1201-MDG** Galvanized construction.
- ❑ **1201-MDS** Type 304 Stainless Steel construction.
- ❑ **1201-MDS** Type 316 Stainless Steel construction.

SLEEVE SELECTION:

SLEEVE LENGTH AND GAUGE:

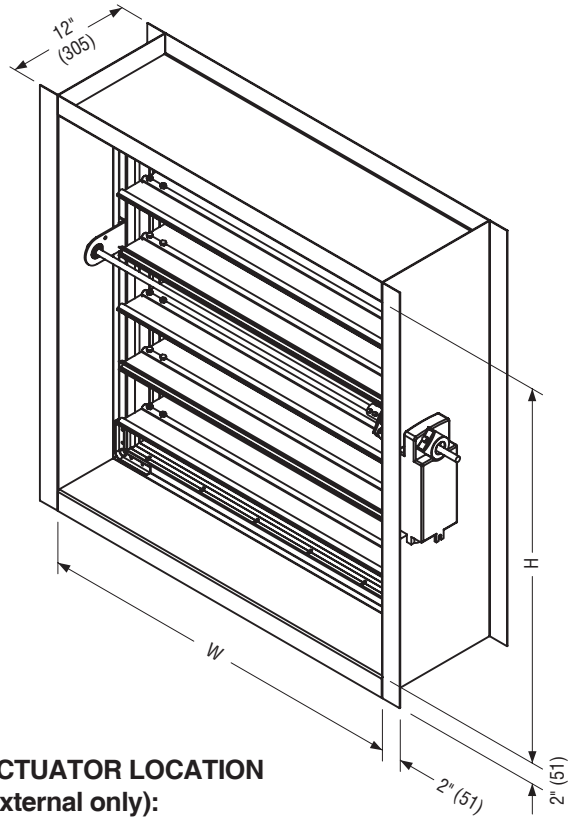
- ❑ Standard 12" (305) long x 16 ga. (1.6).
- ❑ Non-standard. Specify: ___ inches (mm) x ___ ga.

SLEEVE FLANGE:

- ❑ Standard 2" (51) flange.
- ❑ Non-standard flange. Specify: ___ inches (mm).

ACTUATOR SELECTION:

- ❑ Electric ❑ Pneumatic Model: _____ .
- ❑ **HLQ** Hand locking quadrant



ACTUATOR LOCATION (external only):

❑ Right hand (std.) ❑ Left hand

ACTUATOR FAIL POSITION:

❑ Closed (std.) ❑ Open

OPTIONS:

- ❑ **CWS** Continuous weld sleeve
- ❑ **300** MLS-300 position indicator package
- ❑ **212** 212°F (100°C) fusible link.

ACTUATORS

MODEL	SUPPLY (VOLTAGE OR PSI)	APPLICATION
MS4X09 MS8X09 MS4Y09 Honeywell FATPA HT 80 lb. - in.	120 VAC 24 VAC 230 VAC	Single Section (Fail Closed)
MS4120F MS8120F MS4620 Honeywell FATPA XT 175 lb. - in.	120 VAC 24 VAC 230 VAC	Single Section (Fail Closed or Open) or Multi-Section (Fail Closed)
331-4826 Siemens #3 8 - 13 psi spring	25 psi	Single Section (Fail Closed)
331-2961 Siemens #4 8 - 13 psi spring	25 psi	Multi-Section (Fail Closed)

Actuators are externally mounted only.
Additional actuators available. Contact factory.

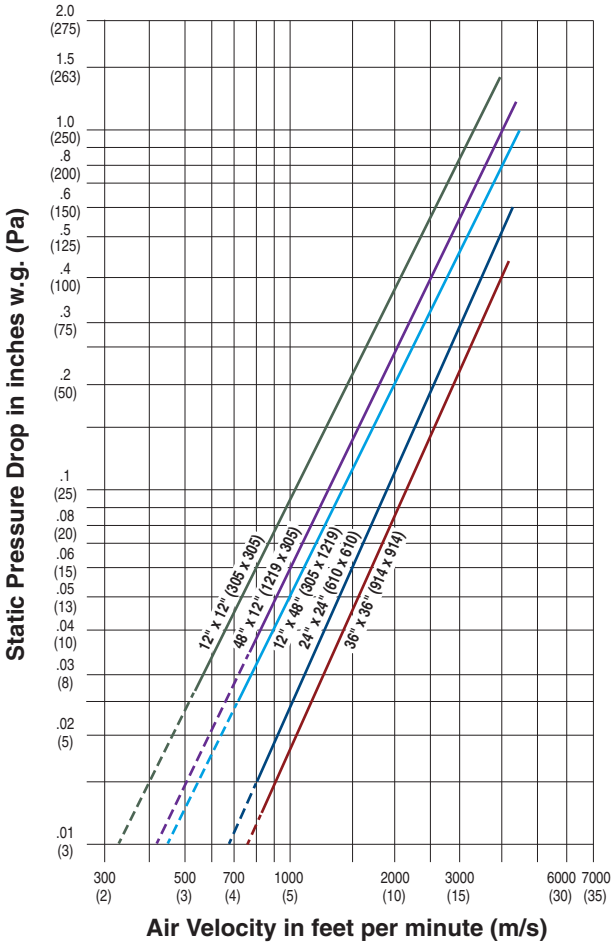
Dimensions are in inches (mm)

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	11 - 13 - 26	1200	8 - 21 - 12	1201-MDG

Nailor Industries Inc. reserves the right to change any information concerning product or pricing without notice.

PERFORMANCE DATA:
MODELS: 1201-MDG AND 1201-MDS

PRESSURE DROP:



Pressure drop tested per AMCA Standard 500-D, Figure 5.3.
Data corrected to standard air density of 0.075 lbs/ft.^{3}.

HOW TO SPECIFY

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, Multi-Blade Marine Fire Dampers as manufactured by Nailor Industries, Inc. which meet or exceed the following criteria: Dampers shall be tested and rated in accordance with the latest edition of International Maritime Organization Fire Test Procedures Code Coast Guard Approval Type A-60 and also bear the European Wheel Mark in accordance with Marine Equipment Directive 96/98/EC.

Frame shall be constructed of 16 ga. (1.6) (**specifier to select**) galvanized steel (**Model 1201-MDG**) **or** Type 304 Stainless Steel (**Model 1201-MDS**) **or** Type 316 Stainless Steel (**Model 1201-MDS**) hat channel with mitered corners reinforced with die-formed corner gussets for strength. Blades shall be 14 ga. (2.0) equivalent (**specifier to select**) galvanized steel (**Model 1201-MDG**) **or** Type 304 Stainless Steel (**Model 1201-MDS**) **or** Type 316 Stainless Steel (**Model 1201-MDS**) formed double skin, airfoil design, on 5 1/2" (140) centers. Dampers shall be of opposed blade configuration with an interlocking blade design. Blade seals are not acceptable. Damper shall be equipped with stainless steel jamb seals for low leakage performance. Bearings shall be (**specifier to select**) self-lubricating oilite bronze type (**Model 1201-MDG**) **or** Stainless Steel (**Model 1201-MDS**). Blade linkage shall be zero-maintenance, concealed in frame, out of airstream.

The heat responsive device shall have a temperature rating of (**specifier select temperature**) 165°F (74°C) **or** 212°F (100°C). Appropriate externally mounted electric actuators shall be installed by the damper manufacturer in the factory. Actuators shall incorporate an OEM internal spring return mechanism, external after-market spring mechanisms are not acceptable. Damper and actuator assembly shall be factory cycled a minimum of 3 times to ensure correct operation.

Standard of acceptance shall be Nailor Model (**specifier to select**) 1201-MDG (Galvanized Steel) **or** 1201-MDS (Stainless Steel).