

# LOW LEAKAGE CONTROL DAMPER STEEL • STANDARD PERFORMANCE MODELS: 1010 & 1020 WITH OPTIONAL 13 GA. FRAME

The 1010/20 Series with optional 13 ga. frame offer low leakage and high value provided in a traditional 13 ga. frame that is fully welded for maximum strength and rack-free installation. For use in low to medium velocity and pressure commercial HVAC applications, the low cost, high quality dampers meet the frequently specified leakage criteria of less than 10 cfm per sq. ft at 4" w.g. (0.5% at 2000 fpm). The design features include a vee groove blade design that maximizes strength and zero maintenance concealed linkage (out of the air stream) for reduced pressure drop and air turbulence.

## STANDARD CONSTRUCTION:

Frame:	5" x 7/8" x 13 ga. (127 x 22 x 2.4) galvanized steel hat channel with die-formed corner gussets. Low profile (flat top and bottom) on dampers 10" (254) high and under.
Blades:	6" (152) wide on 5 1/2" (140) centers. 16 ga. (1.6) galv.
	steel vee groove design. Parallel or opposed action.
Linkage:	Concealed type totally enclosed within the frame and out
U U	of the airstream. Plated steel.
Bearings:	1/2" (13) dia. Celcon <sup>®</sup> .
Axles:	1/2" (13) dia. plated steel double bolted to blades.
Drive Shaft:	6" (152) long x 1/2" (13) dia. rigid drive shaft on all
	single section dampers. A 1/2" (13) or 1" (25) dia. factory
	installed jackshaft is standard on all multiple section
	dampers. See multi-section detail 1000 MSI.
Blade Seals:	Dual durometer bulb type extruded PVC.
Jamb Seals:	Compression type cambered metal.

Temperature Range: -50°F to +180°F (-46°C to +82°C).

Sizes (Duct W x H):

Minimum		Maximum		
Sing	le Section	Single Section	Multiple Section	
Single Blade 6" x 4" (152 x 102)	Two Blades (parallel or opposed) 8" x 10" (203 x 254)	48" x 72" (1219 x 1829)	Unlimited	

### **OPTIONS:**

**BO** Oilite bearings

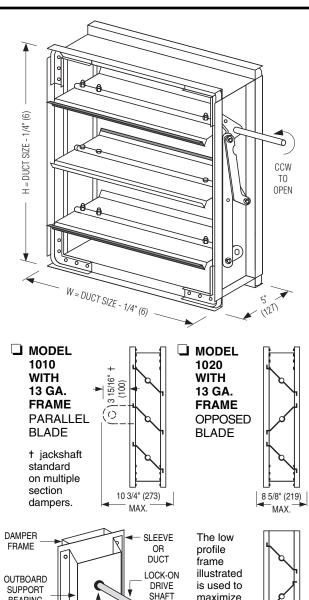
- **AMP** Actuator mounting side plate
- DLO Lock-on drive shaft
- Other \_

Nailor offers a wide selection of pneumatic and electric actuators for factory or field installation.

### Performance Data - Air Leakage (Damper Closed)

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_	Maximum Maximum		Leakage*		
Damper Width	System Pressure	System Velocity	% of Max. Flow	Cfm/ Sq. Ft.	
48" (1219)	2.5" w.g.	2000 fpm	.18	3.5	
36" (914)	3.0" w.g.	2000 fpm	.20	4.0	
24" (610)	4.0" w.g.	2000 fpm	.23	4.5	
12" (305)	5.0" w.g.	2000 fpm	.33	6.6	

\* Leakage information is based upon a pressure differential of 1" w.g. tested per AMCA Standard 500-D, Fig. 5.5.



BEARING Optional lock-on drive shaft support bracket detail.

### Pressure Drop (in. w.g.)

BEARING

BRACKET

Damper Size	Approach Velocity (fpm)			
Bumper eize	750	1000		2000
24" x 24" (610 x 610)	.016	.030	.07	.14
36" x 36" (914 x 914)	.013	.023	.05	.09
48" x 48" (1219 x 1219)	.010	.020	.03	.07

OUTBOARD

SUPPORT

maximize

free area

available

on units 10"

(254) high

and under

Tested per AMCA Standard 500-D, Fig. 5.3.

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SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	DATE	A SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	12 - 4 - 12	1000	6 - 30 - 04	1000-1B

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