

# LOW LEAKAGE CONTROL DAMPER STEEL • STANDARD PERFORMANCE MODELS: 1010 & 1020 WITH FL FACE LINKAGE OPTION

The 1010/20 Series are Nailor's most widely used low leakage dampers and are the standard choice for use in the majority of low to medium velocity and pressure commercial HVAC systems. They are low cost, high quality dampers that meet or exceed the majority of standard specification requirements. They meet the frequently specified leakage criteria of less than 10 cfm per sq. ft at 4" w.g. (0.5% at 2000 fpm). The 1010FL/20FL design features include a sturdy hat channel frame with die-formed corner gussets for reinforcement and structural strength equivalent to 13 gauge channel type frames, a vee groove blade design that maximizes strength and a robust heavy-duty face linkage design that offers easy accessibility and eliminates field adjustment problems.

### STANDARD CONSTRUCTION:

Frame: 5" x 7/8" x 16 ga. (127 x 22 x 1.6) galvanized steel hat

channel with die-formed corner gussets. Low profile (flat top and bottom) on dampers 10" (254) high and under.

6" (152) wide on 5 1/2" (140) centers. 16 ga. (1.6) galv. steel vee groove design. Parallel or opposed action.

Linkage: Face type non-adjustable design in plated steel.

Double sided on units 30" (762) wide and over.

Bearings: 1/2" (13) dia. Celcon®.

Axles: 1/2" (13) dia. plated steel double bolted to blades.

**Drive Shaft:** 6" (152) long x 1/2" (13) dia. lock-on 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):

Blades:

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:**

Other \_

☐ BO Oilite bearings

☐ 304 Stainless Steel construction

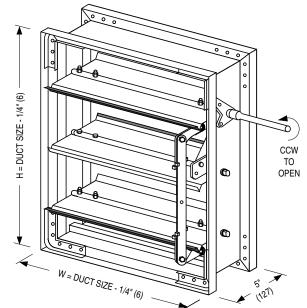
■ AMP Actuator mounting side plate

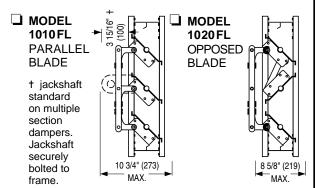
Nailor offers a wide selection of pneumatic and electric actuators for factory or field installation.

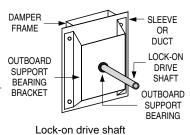
## Performance Data - Air Leakage (Damper Closed)

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

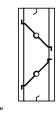






support bracket detail.

The low profile frame illustrated is used to maximize free area available on units 10" (254) high and under



Pressure Drop (in. w.g.)

Damper Size	Approach Velocity (fpm)			
Sampor Gizo	750	1000	1500	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

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

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