

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
	of the airstream. Plated steel.
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.
Jamh Soaler	Compression type combered metal

Compression type cambered metal. Jamb Seals: 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

Other

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.	
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.



Lock-on drive shaft support bracket detail.

Pressure Drop (in. w.g.)

Damper Size	Approach Velocity (fpm)				
Dumper oize	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	

and under.

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	1000-1B

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