



LOW LEAKAGE CONTROL DAMPER MODELS: 1010 & 1020 WITH FK OPTION FACE LINKAGE AND DUAL KNOCK-OUT DRIVE SHAFTS (STOCK MODEL)

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 pressure and velocity 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 1010FK/20FK 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 triple-vee blade design that maximizes strength and a robust heavy-duty face linkage design that offers easy accessibility and eliminates field adjustment problems.

An extendable knock-out drive pin is supplied on this model. It is shipped retracted. A drive pin clamp bracket on both sides of the damper permits left or right hand drive and field inter-connection of horizontal multiple sections.

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.

BLADES: 6" (152) wide on 5 1/2" (140) centers. 16 ga. (1.6) galvanized steel triple-vee 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. knock-out dual drive shafts.

BLADE SEALS: Dual durometer bulb type extruded PVC.

JAMB SEALS: Compression type cambered metal.

MINIMUM SIZE: Single blade (parallel): 6" x 4" (152 x 102).
Two blades (parallel or opposed): 6" x 10" (152 x 254).

MAXIMUM SIZE: Single section: 48" x 72" (1220 x 1829).

TEMPERATURE RANGE: -50°F to 180°F (-45°C to 82°C)

OPTIONS:

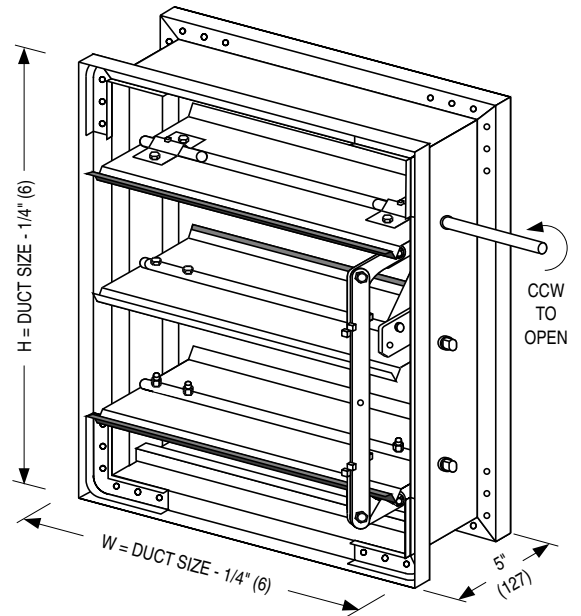
- BO Oilite bearings
- Other _____

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

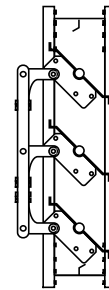
PERFORMANCE DATA - AIR LEAKAGE (DAMPER CLOSED)

DAMPER WIDTH	MAXIMUM SYSTEM PRESSURE	MAXIMUM SYSTEM VELOCITY	LEAKAGE *	
			% OF MAX. FLOW	CFM/ SQ. FT.
48" (1219)	2.5" w.g.	2000 FPM	0.18	3.5
36" (914)	3.0" w.g.	2000 FPM	0.20	4.0
24" (610)	4.0" w.g.	2000 FPM	0.23	4.5
12" (305)	5.0" w.g.	2000 FPM	0.33	6.6

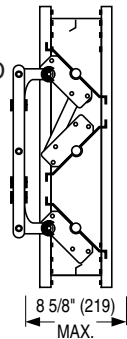
* Leakage information is based upon a pressure differential of 1" w.g. tested per AMCA Standard 500-D, Fig. 5.5.



MODEL 1010FK PARALLEL BLADE



MODEL 1020FK OPPOSED BLADE



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)			
	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:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

6 - 30 - 04

1000

10 - 23 - 02

1000-1D