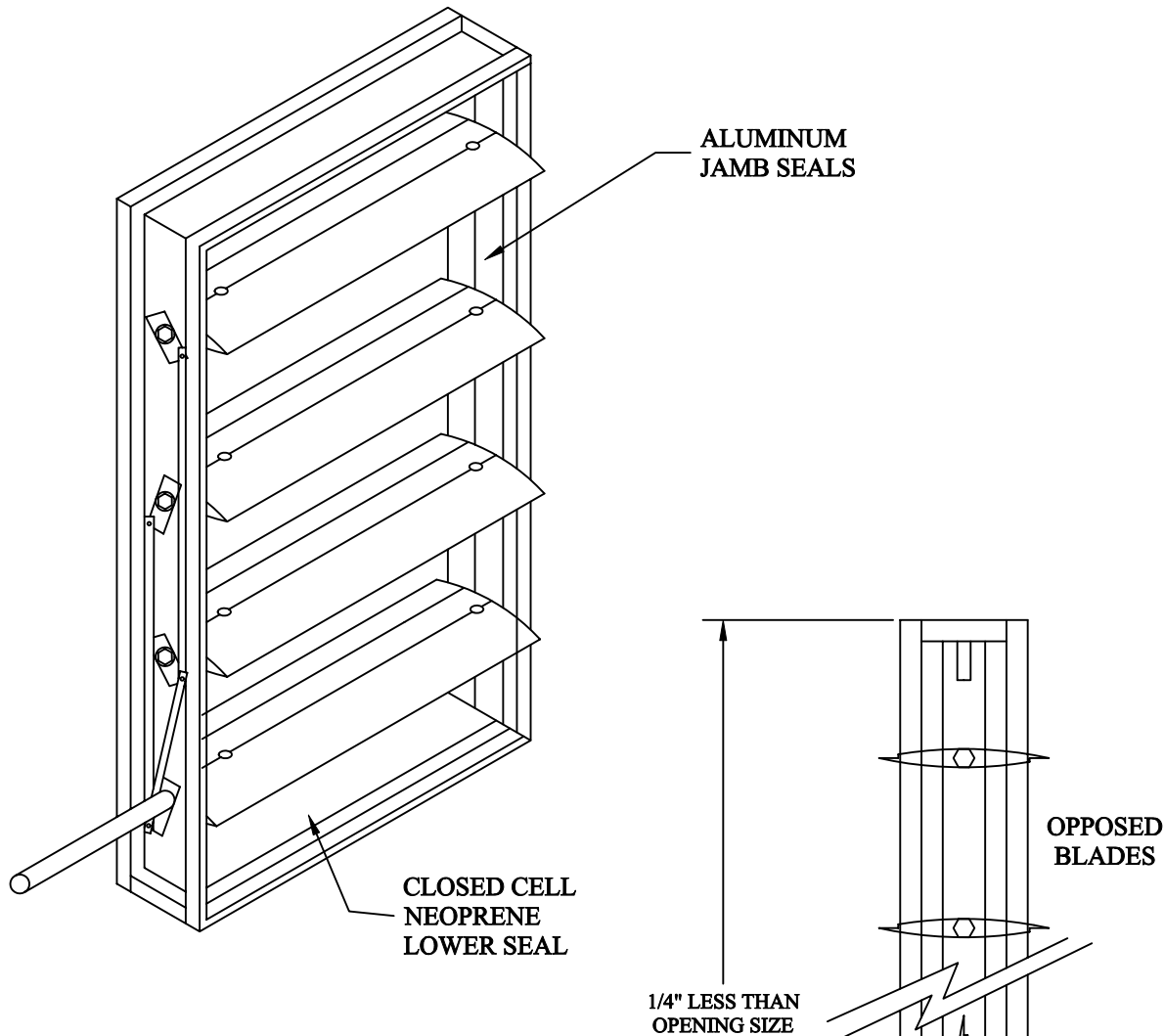


Model ADO-3 Airfoil Control Damper

Opposed Airfoil Blade



Standard Specifications:

Frame: 16 ga. galvanized steel, rollformed
Blade: Airfoil shape, Dual Skin 14 ga.
equivalent thickness, 6" o.c.
Linkage: Concealed in jamb
Seals: Silicone blade and aluminum jamb
Bearings: 7/16" ID Nylon
Axles: 1/2" plated hex
Control shaft: 3" Long x 1/2" Round
Minimum Size: 8"w x 8"h
Maximum Size: Single Section 52"w x 60"h
Finish: Mill finish galvanized.

JOB: _____
LOCATION: _____ **JOB NO.:** _____
ENGINEER: _____ **REPRESENTATIVE:** _____
CONTRACTOR: _____ **DATE:** _____

LEADER

Dampers & Louvers

P.O. Box 40913
Nashville, TN 37204
www.leaderindustries.com
A Division of Leader Industries, Inc.

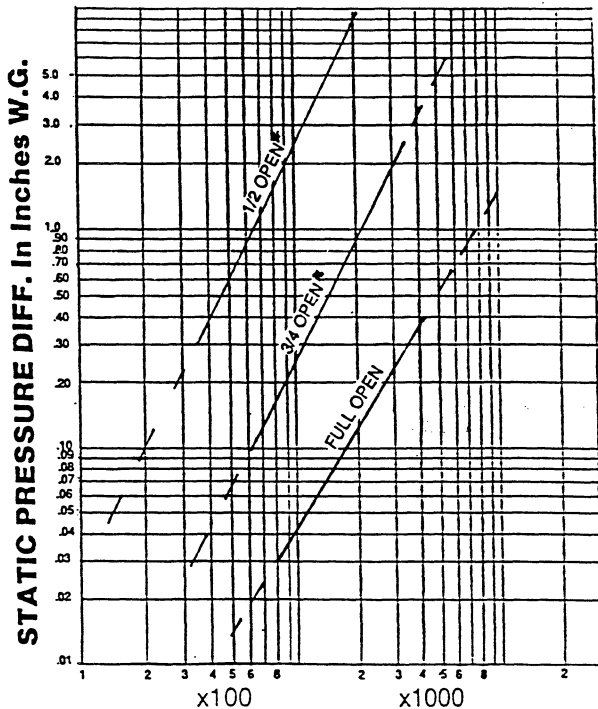
APPROVAL:



Models ADP-2, ADO-3 Airfoil Blade Control Dampers

PERFORMANCE DATA

Pressure Drop



VELOCITY F.P.M.

The tables have been developed through tests done at an independent testing laboratory to assist in application and selection of air control dampers. Performance shown is at standard air density of .075 lb/ft³.

These dampers have been tested and operated at 2500 FPM at 4" S.P. If conditions exceed specified velocity or pressure, consult factory.

TEST SIZE 24" x 24"

Pressure drop test are based on AMCA standard 500 using test set-up figure 5.3 for dampers installed with duct upstream and downstream.

Dampers with the same percent of free area (Actual free area divided by Duct free area x 100) will have the same pressure drop. The percent of free area is proportional to its pressure loss and can be interpolated using the reference point of the 24" wide by 24" high at a given airflow.

*Model ADO-3 (Opposed Blade)

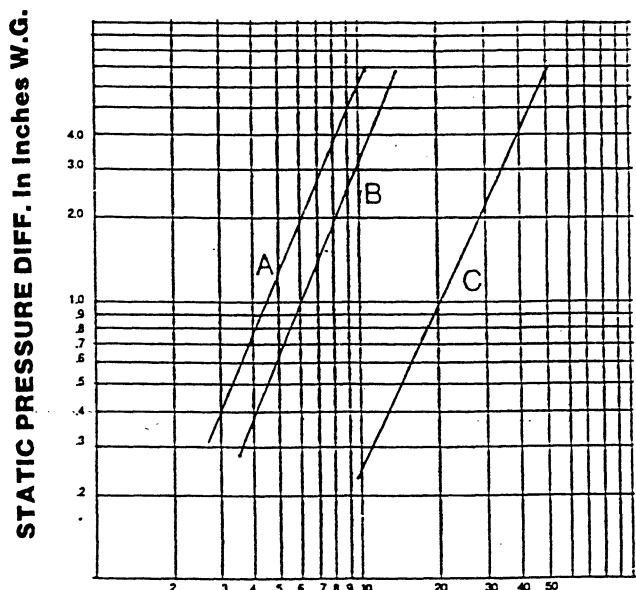
FREE AREA

WIDTH

	8	12	18	24	30	36	42	48	52
8	.20	.33	.52	.72	.91	1.10	1.30	1.49	1.62
12	.35	.57	.90	1.23	1.56	1.89	2.22	2.55	2.77
16	.49	.80	1.26	1.73	2.19	2.66	3.12	3.59	3.90
20	.66	1.09	1.72	2.36	3.00	3.63	4.27	4.91	5.33
24	.81	1.32	2.10	2.87	3.65	4.42	5.20	5.97	6.49
28	.95	1.55	2.46	3.37	4.28	5.19	6.10	7.01	7.61
32	1.13	1.85	2.93	4.01	5.09	6.17	7.25	8.33	9.05
36	1.27	2.08	3.30	4.52	5.74	6.95	8.17	9.39	10.20
40	1.41	2.31	3.66	5.02	6.37	7.72	9.07	10.43	11.33
44	1.59	2.60	4.13	5.65	7.17	8.70	10.22	11.74	12.76
48	1.73	2.84	4.50	6.16	7.82	9.49	11.15	12.81	13.92
52	1.87	3.07	4.86	6.66	8.46	10.25	12.05	13.84	15.04
56	2.05	3.36	5.33	7.29	9.26	11.23	13.19	15.16	16.47
60	2.19	3.60	5.70	7.81	9.91	12.02	14.12	16.23	17.63

Free area is the actual free area of the damper, less the blades, frame, and/or linkage.

Air Leakage



LEAKAGE IN C.F.M./Sq. Ft.

Air Leakage

- A. Leakage of damper with stainless jamb seals and silicone blade seals.
- B. Leakage of damper with aluminum jamb seals and silicone blade seals.
- C. Leakage of damper with aluminum jamb seals only.



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