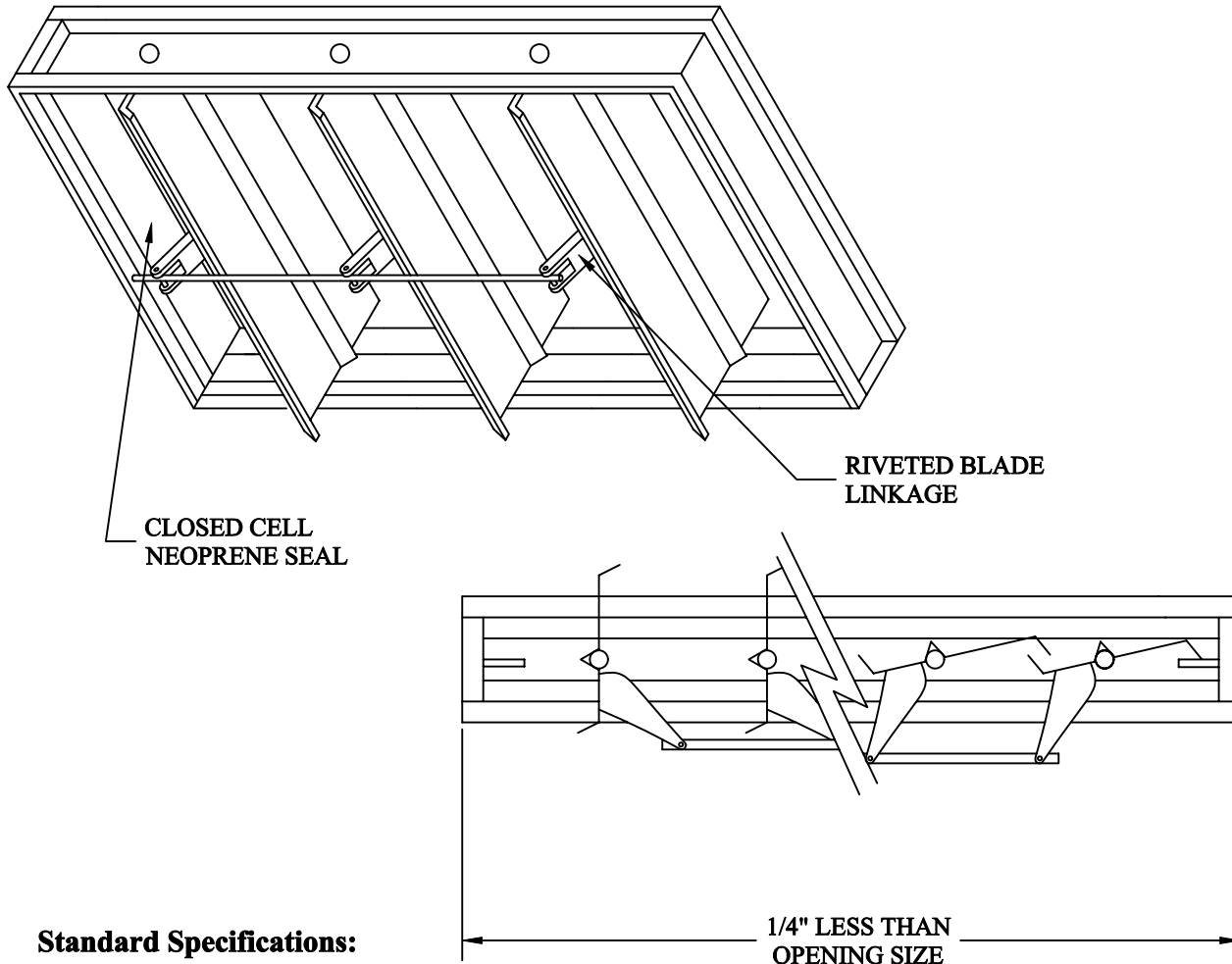


# Model CP-2-HU Counter-Balanced Damper Horizontally Mounted - Airflow Up

Parallel Blade



**Standard Specifications:**

Frame: 16 ga. galvanized steel, 4-1/2" x 3/4"  
rollformed channel  
Blade: 14 ga. Aluminum  
Linkage: Aluminum brackets with brass pivots  
Bearings: 1/2" ID Nylon  
Minimum Size: 6"w x 6"h (single blade)  
6"w x 12"h (parallel blade)  
Maximum Size: Single Section 52"w x 60"h  
Finish: Mill finish galvanized.

**Note:**

1. Blade/Linkage Width Varies From 7.63"-9.63" Depending on Height.
2. Adjustable weights supplied upon request for field installations.

**JOB:** \_\_\_\_\_  
**LOCATION:** \_\_\_\_\_ **JOB NO.:** \_\_\_\_\_  
**ENGINEER:** \_\_\_\_\_ **REPRESENTATIVE:** \_\_\_\_\_  
**CONTRACTOR:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

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# MODEL CP-2 COUNTER-BALANCED AIR CONTROL DAMPER

## PERFORMANCE DATA

TEST SIZE 24"x24"

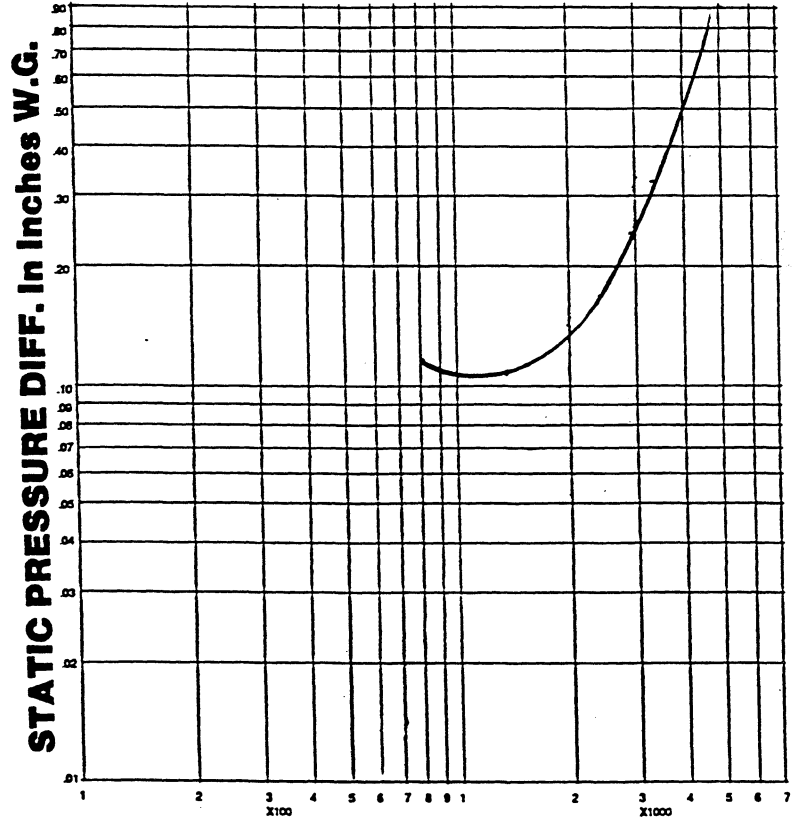
The tables have been developed through tests done at an independent testing laboratory to assist in application and selection of counter-balanced air control dampers.

Performance shown is at standard air density of .075 lb / ft<sup>3</sup>. Pressure drop test are based on AMCA standard 500 using test set-up figure 5.3 for dampers installed with duct upstream and downstream.

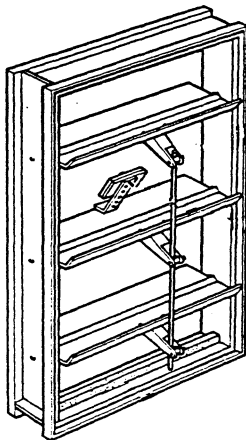
Test size is 24" x 24". The velocity at which it begins to open is 9 fpm and .05" s.p., as tested. The velocity at which the blades are fully open is 1676 fpm. The maximum recommended velocity is as follows: 8"w to 24"w is 3800 fpm; 25"w to 36"w is 3400 fpm; and 37"w to 48"w is 3000 fpm.

The counter-balanced dampers are shipped with an over abundance of weights so they may be field adjusted to meet desired operations.

### Pressure Drop



### VELOCITY F.P.M.



FREE AREA	WIDTH									
	6	12	18	24	30	36	42	48	52	
6	.10	.23	.36	.50	.63	.77	.90	1.04	1.13	
12	.27	.65	1.03	1.41	1.80	2.18	2.56	2.94	3.19	
18	.43	1.04	1.65	2.26	2.87	3.48	4.09	4.70	5.10	
24	.59	1.42	2.26	3.09	3.92	4.76	5.59	6.43	6.98	
30	.75	1.81	2.87	3.92	4.98	6.04	7.10	8.16	8.86	
36	.91	2.19	3.47	4.76	6.04	7.32	8.60	9.89	10.74	
42	1.07	2.57	4.08	5.59	7.09	8.60	10.11	11.62	12.62	
48	1.23	2.96	4.69	6.42	8.15	9.88	11.61	13.35	14.50	
54	1.39	3.34	5.30	7.25	9.21	11.16	13.12	15.07	16.38	
60	1.54	3.72	5.90	8.08	10.26	12.44	14.62	16.80	18.26	



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Free Area is calculated by subtracting blades, frame, and/or linkage from the duct area.