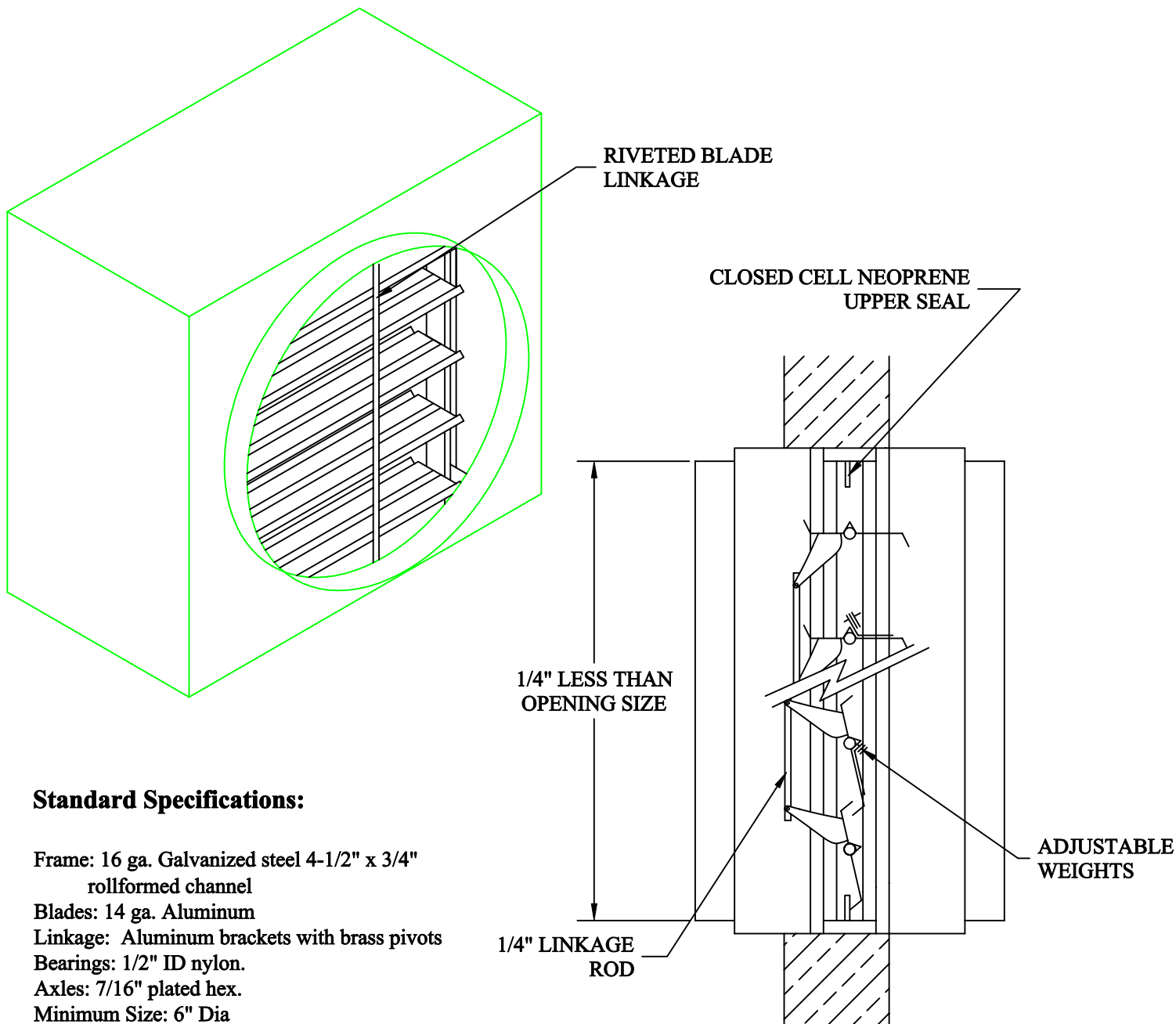


# Model CP-2-CR Counter-Balanced Damper

## Parallel Blade



### Standard Specifications:

- Frame: 16 ga. Galvanized steel 4-1/2" x 3/4" rollformed channel
- Blades: 14 ga. Aluminum
- Linkage: Aluminum brackets with brass pivots
- Bearings: 1/2" ID nylon.
- Axles: 7/16" plated hex.
- Minimum Size: 6" Dia
- Maximum Size: 50" Dia (single section)
- 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:**

# MODEL CP-2 COUNTER-BALANCED AIR CONTROL DAMPER

## PERFORMANCE DATA

TEST SIZE 24"x24"

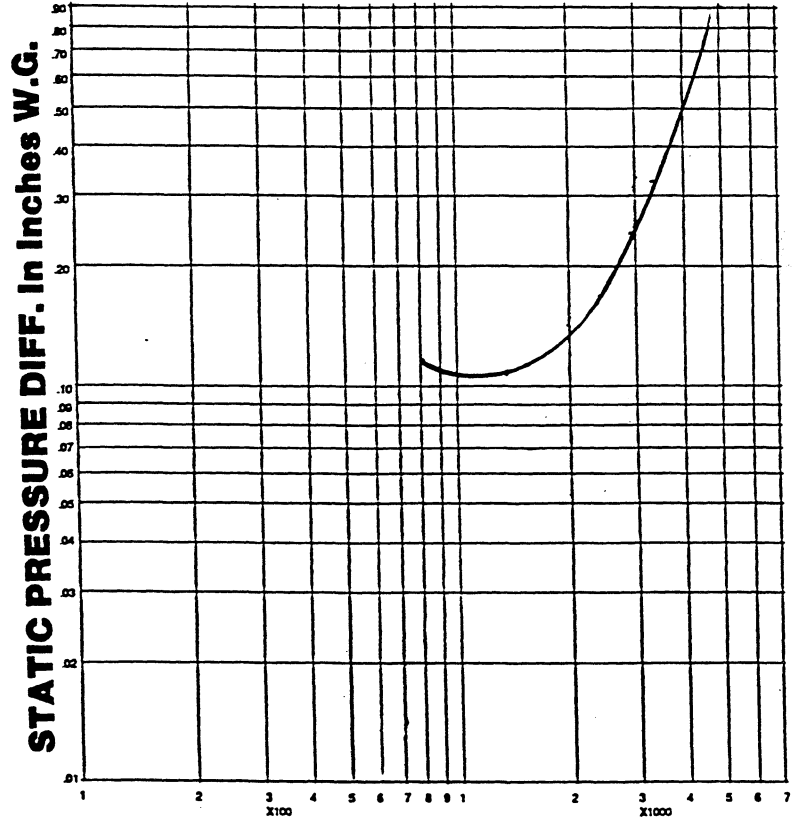
The tables have been developed through tests done at an independent testing laboratory to assist in application and selection of counter-balanced air control dampers.

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.

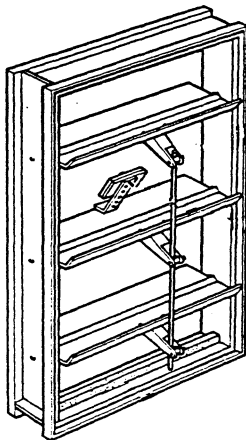
Test size is 24" x 24". The velocity at which it begins to open is 9 fpm and .05" s.p., as tested. The velocity at which the blades are fully open is 1676 fpm. The maximum recommended velocity is as follows: 8"w to 24"w is 3800 fpm; 25"w to 36"w is 3400 fpm; and 37"w to 48"w is 3000 fpm.

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 |  |



A Leaders Industries Division

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