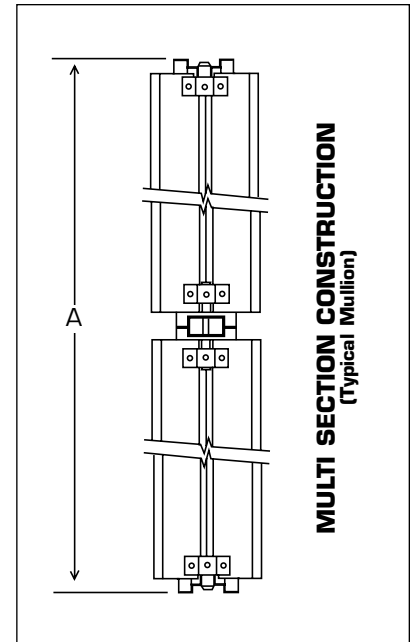
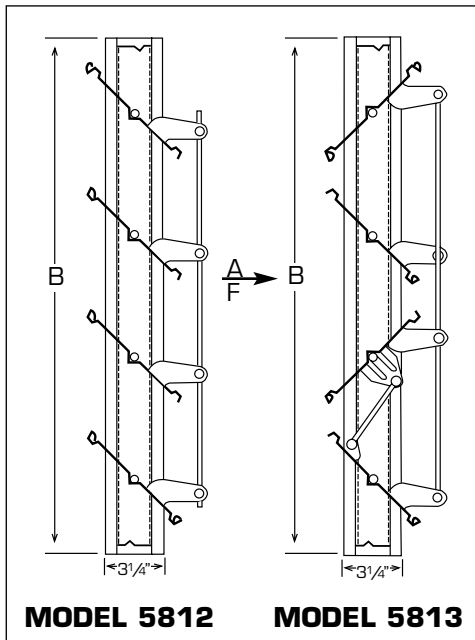




**CERTIFICATION & SUBMITTAL**  
**MODEL 5810**  
**Dyn-O-Seal Low Leakage Dampers**  
**Parallel and Opposed Blade**



**STANDARD SPECIFICATIONS**

**OPTIONS**

- **FRAME:** 14 gauge galvanized press formed steel with welded corners.
- **BLADES:** 16 gauge galvanized press formed reinforcements.
- **AXLES:** 1/2" x 2" long plated steel rods.
- **BEARINGS:** 1/2" diameter self-lubricating porous bronze.
- **BLADE EDGE SEAL:** Dyn-O-Grip extruded dual durometer vinyl.
- **SIDE SEALS:** Spring stainless steel.
- **CONTROL ROD:** 1/2" diameter x 9" long plated steel.
- **HARDWARE:** Plated steel center brackets, brass pivots, 1/4" or 5/16" diameter plated steel linkage rod.
- **FINISH:** Standard Mill.
- **MAXIMUM TEMPERATURE:** 160°F.
- **MAXIMUM VELOCITY:** 2000 fpm.
- **MAX. SINGLE SECTION:** 48" X 72".
- **MINIMUM SIZE:** Model 5811: 6" x 8"  
 Model 5812: 8" x 12"  
 Model 5813: 12" x 12"

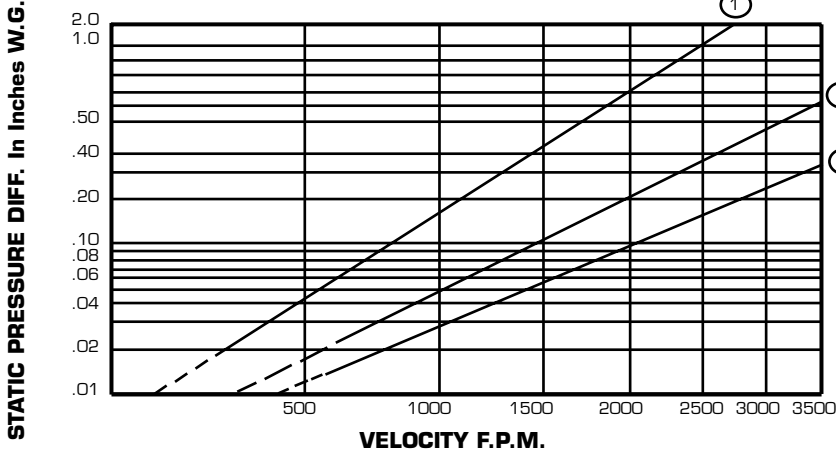
- 09 Tack Weld Hardware.
- 12 Nylon Bearings (Bushings).
- 13 Stainless Steel Bearings (Bushings).
- 14 Stainless Steel Bearing Pins (Axles).
- 20 Vertical Blades.
- 24 Right Angle Mixing Set-up, internal linkage.
- 25 Right Angle Mixing Set-up, external linkage.
- 26 Face & Bypass Set-up, vertical internal linkage.
- 27 Face & Bypass Set-up, vertical external linkage.
- 28 Face & Bypass Set-up, horizontal, internal linkage or jackshaft.
- 31 Flange, 1-1/4" fastened to damper frame [opposite linkage].
- 89 Sleeve.
- 90 Jackshaft.
- 92 Actuators.

**NOTE:** A & B are opening dimensions. Unless otherwise specified, dampers are made 1/4" undersize.



**PERFORMANCE DATA  
MODEL 5813  
Low Leakage Dyn-O-Seal Dampers**

**AIRFLOW  
CHART 1**



Test set-up per figure 5.3 (in-duct) and 5.5 (in-wall) and measurement per figure 6.5 of AMCA standard 500-89.

**TEST SIZES**

1. 24" X 24" full open Figure 5.5 (in-wall).
2. 12" x 12" full open Figure 5.3 (in-duct).
3. 24" x 24" full open Figure 5.3 (in-duct).

Holding torque applied was 4-inch pounds per square foot of damper area applied through external control arm to blade linkage. Test set-up per figure 5.5 and measurement apparatus set-up per figure 6.5 of AMCA Standard 500-89.

The performance information on Leakage Chart 2 is derived from testing in accordance with AMCA Standard 500-89 with test set-up per figure 5.5 and measurement apparatus set-up per figure 6.5 of the AMCA Standard.

This information is based on testing the following 2 dampers with linkage downstream as Vent Products recommends, and labels each damper accordingly.

**Air leakage is based on operation between 50°F and 104°F.**

**Standard Air Density 0.075 LB/FT<sup>2</sup>.**

**TEST SIZES**

- ① 48" X 12" holding torque applied 4 in.lb/S.F. damper area.
- ② 12" X 72" holding torque applied 4 in.lb/S.F. damper area.
- ③ 48" X 72" holding torque applied 4 in.lb/S.F. damper area.

**LEAKAGE  
CHART 2**

