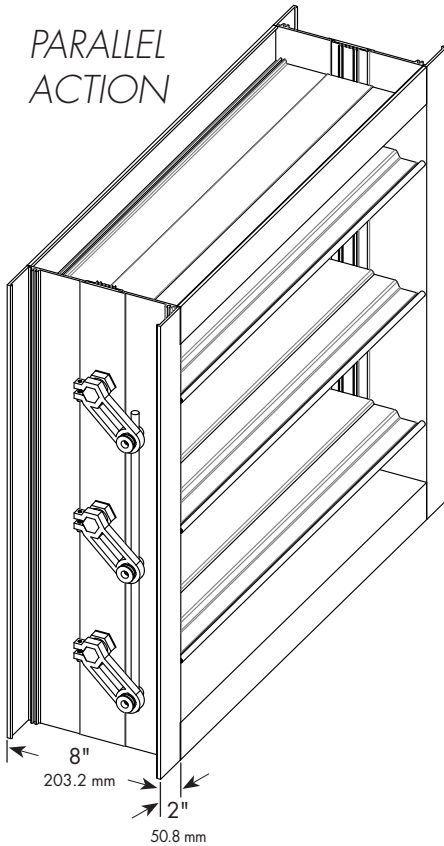


SPECIFICATIONS

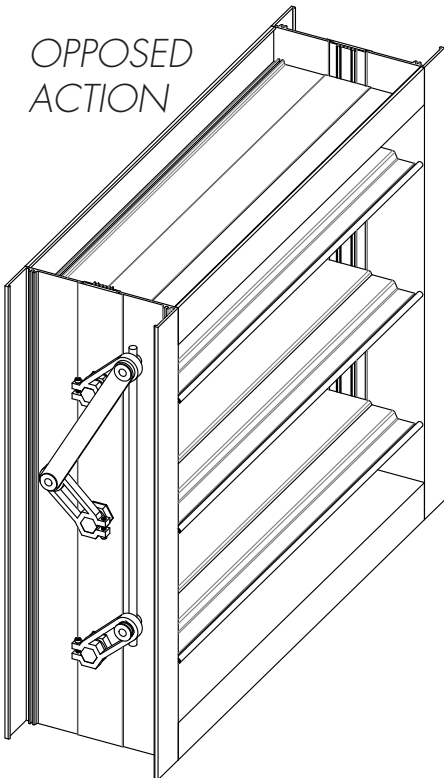
S E R I E S 8 8 0 0

HEAVY DUTY AIR-FOIL CONTROL DAMPER

PARALLEL
ACTION



OPPOSED
ACTION



1. Extruded, mill-finish aluminum (6063-T5) damper frame is not less than 0.125" (3.17 mm) in thickness. Damper frame is 8" (203.2 mm) deep x 2" (50.8 mm), with mounting flanges on both sides of the frame.
2. Specifically engineered blade stops are located outside the air stream, providing a larger free area and reduced pressure drop.
3. Blades are 8" (203.2 mm) maximum deep extruded aluminum (6063-T5) air-foil profiles and are not less than 0.081" (2.1 mm) in thickness.
4. Blade and frame seals are extruded silicone. Seals are secured in an integral slot within the aluminum extrusions. Blade and frame seals are mechanically fastened to prevent shrinkage and movement over the life of the damper.
5. Bearings are composed of a bronze oilite inner bearing (fixed around a 3/4" (19.05 mm) aluminum hexagon blade pivot pin) rotating within a bronze oilite outer bearing inserted in the frame.
6. A fixed 3/4" (19.05 mm) aluminum hexagonal drive rod will be staked at a measurement of 6" (152.4 mm) extending beyond the edge of the damper frame.
7. Mill-finish aluminum and corrosion-resistant zinc-plated steel linkage hardware is installed in the frame side, complete with cup-point trunnion screws for a slip-proof grip. Trunnion bearing is bronze oilite.
8. Dampers are designed for operation in temperatures ranging from -40°F (-40°C) to 300°F (149°C).
9. Leakage for a 24" x 24" (610 mm x 610 mm) damper does not exceed 3.9 cfm/ft² (19.8 l/s/m²) against 1 in w.g. (0.25 kPa) differential static pressure.
10. Dampers are custom made to required size, without blanking off free area.
11. Dampers are available with either opposed blade action or parallel blade action.
12. Dampers are available in Flanged to Surface install type only.
13. Installation of dampers must be in accordance with TAMCO's current installation guidelines, provided with each damper shipment. (Note that all technical information available on TAMCO's web site at www.tamcodampers.com supersedes and takes precedence over all information contained within the printed catalog.)
14. Intermediate structural support is required to resist applied pressure loads for dampers that consist of two or more sections in both height and width. (See TAMCO Aluminum Damper Installation Guidelines.)

OPTIONS (For each option listed, replace the specification lines above with their corresponding specification lines below.)

MR - MOISTURE RESISTANCE OPTION:

1. Extruded, mill-finish aluminum (6063-T5) damper frame is not less than 0.125" (3.17 mm) in thickness. Damper frame is 8" (203.2 mm) deep x 2" (50.8 mm), with mounting flanges on both sides of frame. Frame is assembled using stainless steel screws.
7. Mill-finish aluminum and stainless steel linkage hardware is installed in the frame side, complete with stainless steel cup-point trunnion screws for a slip-proof grip. Trunnion bearing is bronze oilite.

SW - SALT WATER RESISTANCE OPTION:

1. Extruded aluminum (6063-T5) damper frame is not less than 0.125" (3.17 mm) in thickness. Damper frame is 8" (203.2 mm) deep x 2" (50.8 mm), with mounting flanges on both sides of the frame. Aluminum frame is clear anodized to a minimum thickness of 0.7 mil (18 microns) deep. Frame is assembled using stainless steel screws.
3. Blades are 8" (203.2 mm) maximum deep extruded aluminum (6063-T5) air-foil profiles and are not less than 0.081" (2.1 mm) in thickness. Blades are clear anodized to a minimum thickness of 0.7 mil (18 microns) deep.
7. Anodized aluminum and stainless steel linkage hardware is installed in the frame side, complete with stainless steel cup-point trunnion screws for a slip-proof grip. Trunnion bearing is bronze oilite.

OPTIONAL PAINT OR COATING FINISHES:

Contact TAMCO Customer Service for more information regarding paint or coating finishes.

FLANGED TO SURFACE TYPE

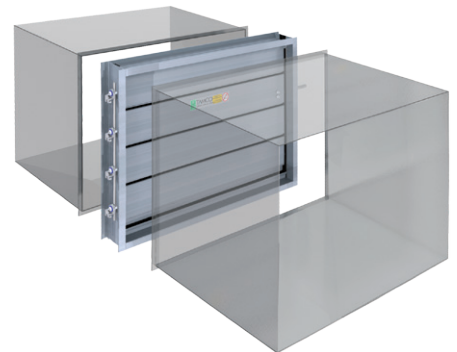
4" (101.6 mm) added to opening width & height dimensions
Maximum section size: 40 ft² (3.7 m²)
60" w x 96" h (1524 mm x 2439 mm)

Dampers exceeding the maximum section size, will be built in multiple sections. Multiple sections cannot be linked and each section must be operated independently.

Always provide opening width and height dimensions, when ordering.

Width dimension is always parallel to blades.

Height dimension is always perpendicular to blades.



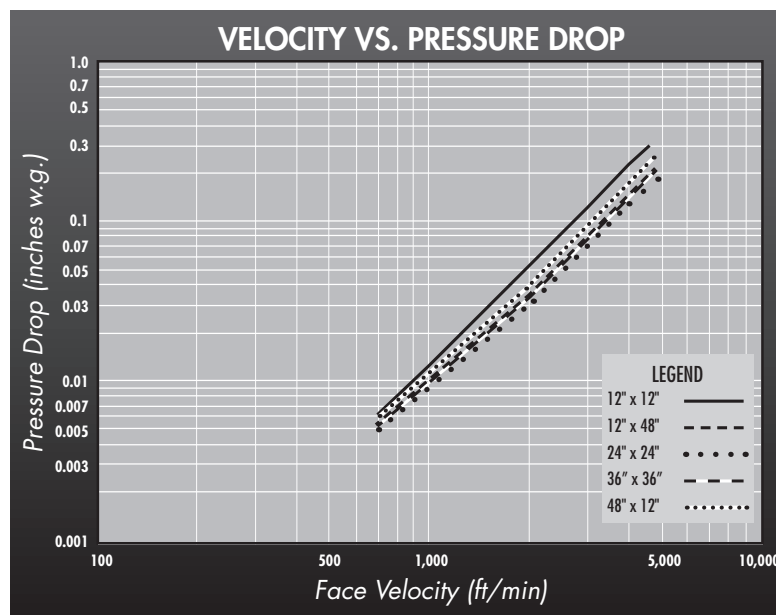
PERFORMANCE DATA

S E R I E S 8 8 0 0

HEAVY DUTY AIR-FOIL CONTROL DAMPER

Specifically engineered blade stops are located outside the air stream, providing a larger free area and reduced pressure drop.

AMCA 500-D, FIGURE 5.3



Test damper is fully ducted with a 5 diameter duct run upstream, and a 6 diameter duct run downstream.

PERFORMANCE DATA

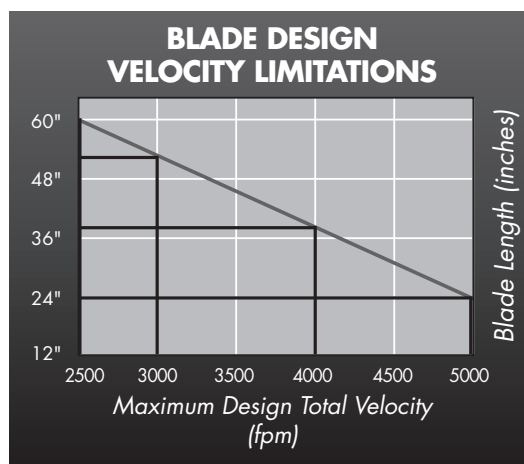
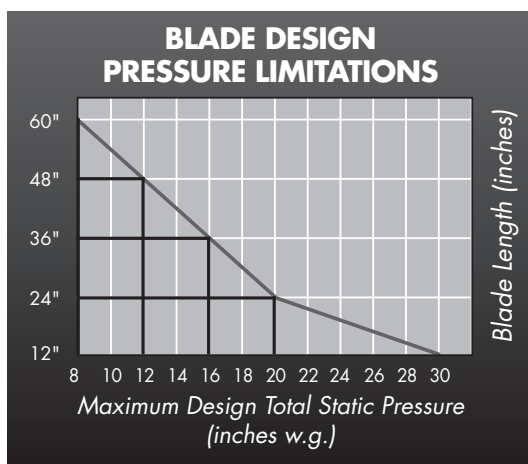
Damper Width inches (mm)	LEAKAGE ft ³ /min/ft ² (l/s/m ²)					
	1 in. w.g. 0.25 kPa	4 in. w.g. 1.0 kPa	8 in. w.g. 2.0 kPa	12 in. w.g. 3.0 kPa	16 in. w.g. 4.0 kPa	20 in. w.g. 5.0 kPa
0.0 to 24.0 (0 - 610)	3.9 (19.8)	5.7 (29.0)	7.1 (36.1)	8.1 (41.1)	9.0 (45.7)	10.1 (51.3)
24.1 to 36.0 (611 - 915)	3.3 (16.8)	4.1 (20.8)	4.7 (23.9)	5.1 (25.9)	5.3 (26.9)	5.5 (27.9)
36.1 to 48.0 (916 - 1220)	2.6 (13.2)	3.6 (18.3)	4.3 (21.9)	5.1 (25.9)	*	*
48.1 to 60.0 (1221 - 1524)	2.2 (11.2)	3.0 (15.2)	5.3 (26.9)	*	*	*

***NOTE:** TAMCO Leakage is not provided for these categories as the recommended blade length is exceeded at these static pressures.
(Refer to the Blade Design Pressure Limitations Chart.)

Leakage testing was conducted in accordance with ANSI/AMCA Standard 500-D, Figure 5.4. Data are based on a torque of 8 in-lb/ft² (9.72 N-m/m²) with a minimum of 60 in-lb (72.97 N-m/m²) applied to close and seat the parallel blade damper during the test. Air leakage is based on operation between 32°F (0°C) and 120°F (49°C).

The following sizes of TAMCO Series 8800 dampers were tested:

24" x 24" (610 mm x 610 mm), 36" x 36" (915 mm x 915 mm), 48" x 36" (1220 mm x 915 mm), 60" x 36" (1524 mm x 915 mm).



Series 8800 dampers, whose blade length exceeds the maximum design pressure or design velocity, may be reconfigured to maintain a blade length compatible with the required system pressure or velocity by increasing the number of sections per damper and thereby reducing each damper section's blade length. Appropriate intermediate structural support will be required for all multiple-section damper assemblies.

(Refer to line 14 in the specifications on page 1 and to TAMCO's Aluminum Damper Installation Guidelines.)

Example: 1 section damper of 60" w x 36" h (1524 mm x 915 mm) at 12 in w.g.

(3 kPa) would need to be built in 2 sections of 30" w x 36" h (762 mm x 915 mm).

Note:

- Suitable for operation in breathable air environments within stated temperature range.

For additional information, refer to:

- Series 8800 Free Area Charts
- Heavy Duty Damper Standard Configurations
- Heavy Duty Damper Torque Requirements
- TAMCO Damper Chemical Resistance Chart
- TAMCO Aluminum Damper Installation Guidelines