SERIES 8800

HEAVY-DUTY CONTROL DAMPER

TAMCO

EXPERIENCE TRUE EXCELLENCE IN SERVICE, QUALITY,

AND MAINTENANCE-FREE PERFORMANCE.

FEATURES

HEAVY-DUTY PERFORMANCE ACHIEVED

- TAMCO Series 8800 Heavy Duty Dampers are constructed with robust components to withstand up to 30" w.g. *(7.5 kPa)* of static pressure and velocities up to 5000 fpm *(25.4 m/s)*.
- They are designed for operation in temperatures ranging from -40 °F *(-40 °C)* to 300 °F *(149 °C)*.
- Series 8800 Dampers are assembled using slip-proof linkage components that keep blades aligned as per factory adjustment, ensuring consistent performance over the life of the dampers.
- The hexagon design feature of linkage and pivot elements allows for flat-on-flat press fits that eliminate play and wear.
- Assorted coatings and finishes can be applied to the Series 8800 Damper, further enhancing the range of applications for which this Series is suitable.

INNOVATION IN DESIGN

- The innovative blade stop design increases free area.
- TAMCO Series 8800 pressure drop is significantly lower than that of industry standard heavy-duty dampers.

LOW LEAKAGE RATE

- TAMCO Series 8800 Heavy-Duty Dampers are supplied with extruded silicone blade and side seals.
- Leakage through a 48" *(1220 mm)* wide Series 8800 damper at 1 in. w.g. *(.25 kPa)* pressure difference does not exceed 2.6 cfm/ft² *(13.2 l/s/m²)*.
- Silicone's superior dynamic fatigue resistance ensures prolonged sealing longevity, plus phenomenal resistance to weathering, compression set, and heat.
- Silicone seals have an approximate service life of 30 years.

ALUMINUM STRENGTH & DURABILITY

- Aluminum dampers provide a prolonged and rust-free operational life over galvanized steel types.
- Aluminum extrusions allow for intricate design features not possible with roll or brake formed galvanized steel.
- Aluminum construction allows for additional strength by extruding internal supports and thicker radii.
- Aluminum oxidizes to form a protective film. If the surface is scratched, the film reforms. *(Standard damper is produced with a mill finish.)*

APPLICATIONS

The Series 8800 Heavy-Duty Damper is specifically designed for elevated static pressure and velocity applications. It is recommended for use in high-pressure isolation systems, air handling units, gen sets, and fan inlet or fan outlet locations. Series 8800 dampers are also an effective solution wherever heavy-duty balancing is required, or for high pressure and/or velocity mixing applications. TAMCO's Heavy-Duty Damper is ideal for use in facilities such as:

- Power plants
- Mining operations
- Water treatment plants
- Pharmaceutical processing plants
- Bottling and brewery plants
- Military complexes
- Sports complexes
- Laboratories
- Recycling plants
- Refineries

UPGRADE OPTIONS

MOISTURE RESISTANCE
MR OPTION

- All zinc-plated, steel hardware is replaced with stainless steel, protecting hardware from rust and corrosion.
- Suitable for applications where dampers are exposed to extended periods of high humidity or high moisture.
- The Moisture Resistance Option is a cost effective alternative to the Salt Water Resistance Option for applications where salt spray is not a concern.

OPTIONAL
PAINT OR COATING FINISHES

- TAMCO offers optional paint or coating finishes in a wide range of colors for Series 8800 Heavy-Duty Control Dampers.
- All powder coating finishes are formulated for exterior use.
- Powder coatings are available in matte, glossy, or textured finishes.

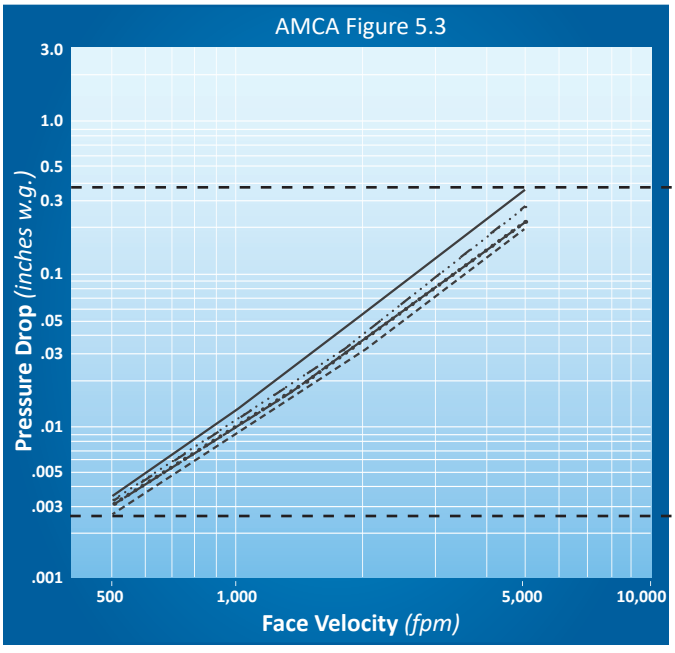
SALT WATER RESISTANCE
SW OPTION

- The extruded aluminum frames and blades are all clear anodized to a minimum thickness of 0.7 mil *(18 microns)* deep.
- The frame is assembled with stainless steel screws.
- Stainless steel hardware, linkage parts and screws replace all zinc-plated steel components.
- All aluminum linkage hardware parts are clear anodized.
- Specifically designed for environments where there is salt spray or salt content in the air.
- Ideally suited for coastal climates.
- Excellent solution for high humidity applications or where moisture levels are elevated.

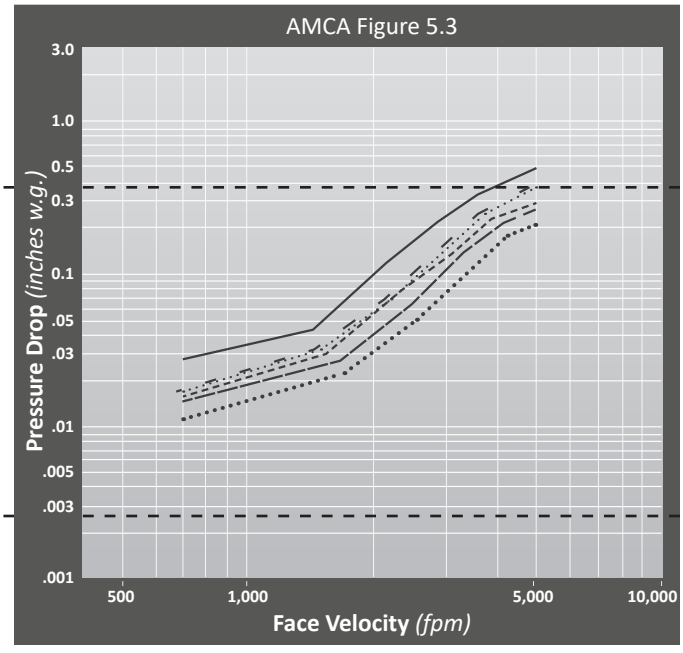
PRESSURE DROP PERFORMANCE

SPECIFICALLY ENGINEERED BLADE STOPS ARE LOCATED OUTSIDE THE AIR STREAM, PROVIDING A LARGER FREE AREA AND REDUCED PRESSURE DROP.

TAMCO SERIES 8800
VELOCITY VS. PRESSURE DROP



COMPETITOR "R" HD DAMPER
VELOCITY VS. PRESSURE DROP



LEGEND:

12" x 12" ——— *(305 mm x 305 mm)*	24" x 24" - - - - *(610 mm x 610 mm)*	48" x 12" –·–·– *(1220 mm x 305 mm)*
12" x 48" — — *(305 mm x 1220 mm)*	36" x 36" ····· *(915 mm x 915 mm)*	

FIG. 5.3
Test damper is fully ducted with a 5 diameter duct run upstream, and a 6 diameter duct run downstream. Air Performance testing was conducted in accordance with ANSI/AMCA Standard 500-D.

SERIES 8800




SPX ENGINEERED AIR MOVEMENT
80 Lorne Street
Smiths Falls, ON K7A 5J7, Canada
800 561 3449
tamcodampers.com

TA-8800-24 | ISSUED 01/2024
© 2024 SPX Engineered Air Movement | All rights reserved

In the interest of technological progress, all products are subject to design and/or material change without notice.

SPX TECHNOLOGIES