



Smoke Evacuation And Shaft Damper SSD



DESCRIPTION:

In case of fire if the smoke and heat are discharged to atmosphere in a controlled manner, fire-fighters can work more comfortably in rescuing, cooling and extinguishing processes. Smoke and heat of fire will be discharged before spreading to other areas and therefore the products, systems and building components in the whole building will not be damaged and the total damage will be reduced. Acceleration of fire will be reduced by preventing the accumulation of heat inside and the products and systems in the ambient will not be allowed to reach to combustion temperature. Toxic gases will not be allowed to remain inside. Static of structure will not be distorted by preventing accumulated heat to effect to structural components. In single-storey buildings, indoor parking garages, underground transportation systems, dome architectures and big shaft and elevator well without positive pressurization, accumulation of heat and smoke in the upper altitudes happens very quickly. If smoke and heat won't discharged with dampers, smoke collapses down and spreads horizontally and steel structure carriers' properties deteriorate.

MATERIAL :

Product casing is manufactured from 1,50 mm thick galvanized steel sheet, blades are manufactured from aluminium profile or galvanized steel sheet according to customer demand. Blade slots are manufactured from bronze material and blade mechanism is manufactured from stainless steel. Blades operate as parallel to each other. They work with fire damper actuator or smoke damper actuator according to the place they are working.

FUNCTION:

The SSD series of control dampers have been designed and tested to provide a reliable and cost effective control damper. Fabricated of galvanized steel frames and blades, the MVC series features concealed linkage and is available in either parallel or opposed blade operation.

- Single Thickness Blade
- 200°F Max. Temperature
- Parallel or Opposed
- Steel Control Damper

ASSEMBLY

- Assembly to air duct – Assembly with bolt and clamps
- Assembly to concrete slot – Special casing design can be installed with screws to box profile.

MODEL

- SSD-A: Smoke Evacuation Damper (Shaft Damper) With Aluminium Profile Blade
- SSD-G: Smoke Evacuation Damper (Shaft Damper) With Galvanized Sheet Blade



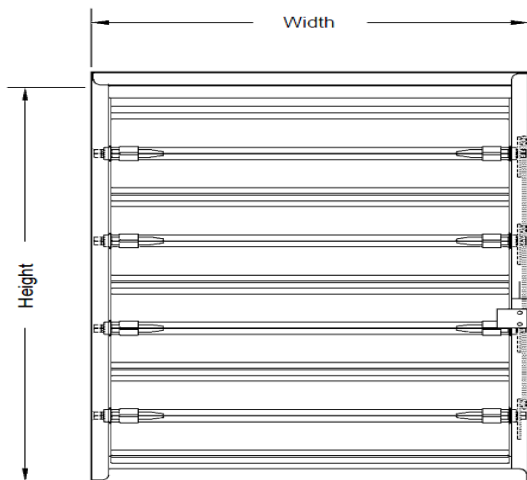
STANDARD SIZES (mm):

| AVAILABLE SIZES (mm) - Always width x height | | | | | | | | |
|--|-------|-----|-----|-----|-----|-----|-----|-----|
| HEIGHT | WIDHT | | | | | | | |
| | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
| 200 | X | X | X | X | X | X | X | X |
| 300 | X | X | X | X | X | X | X | X |
| 400 | X | X | X | X | X | X | X | X |
| 500 | X | X | X | X | X | X | X | X |
| 600 | X | X | X | X | X | X | X | X |
| 700 | X | X | X | X | X | X | X | X |
| 800 | X | X | X | X | X | X | X | X |
| 900 | X | X | X | X | X | X | X | X |
| 1000 | X | X | X | X | X | X | X | X |
| 1100 | X | X | X | X | X | X | X | X |
| 1200 | X | X | X | X | X | X | X | X |
| 1300 | X | X | X | X | X | X | X | X |
| 1400 | X | X | X | X | X | X | X | X |
| 1500 | X | X | X | X | X | X | X | X |

| H (mm) | W (mm) |
|--------|--------|
| 200 | 100 |
| 250 | 200 |
| 300 | 300 |
| 350 | 400 |
| 400 | 500 |
| 450 | 600 |
| 500 | 700 |
| 600 | 800 |
| 700 | 900 |
| 800 | 1000 |
| 900 | |
| 1000 | |
| 1100 | |
| 1200 | |
| 1300 | |
| 1400 | |
| 1500 | |
| 1600 | |
| 1700 | |
| 1800 | |

| Flange | |
|--------|----|
| F (mm) | |
| | 30 |
| | 25 |

DRAWING



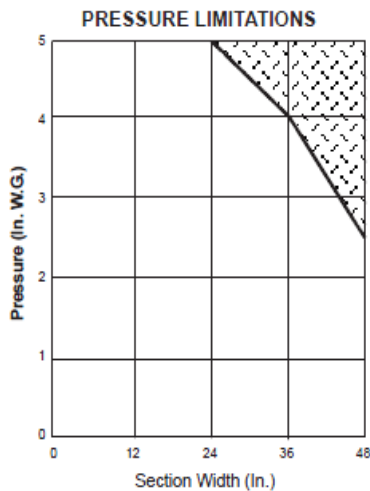
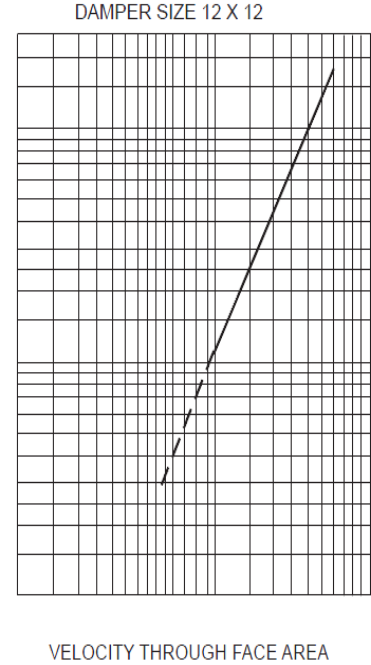
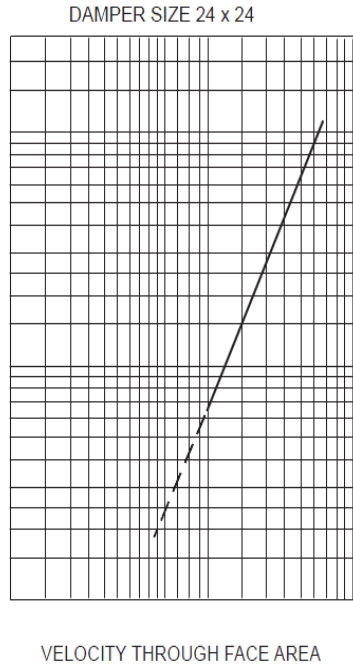
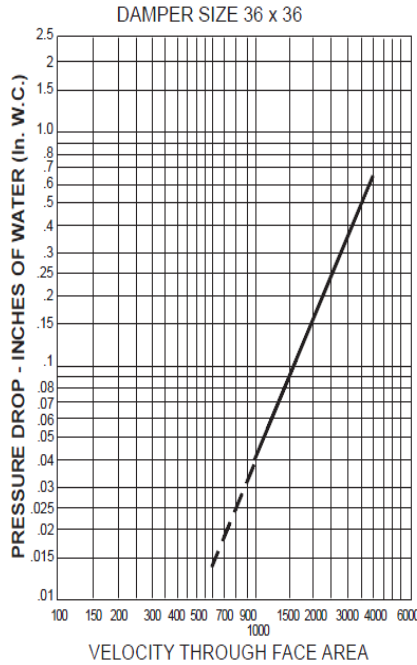
The servomotors are supplied for 24 V operation 230 V operation available on request. GMCAIR incorporates motors from different manufacturers (Belimo, Siemens, etc.).





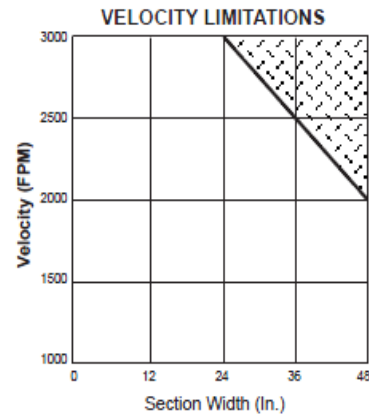
SELECTION TABLES

PRESSURE DROP

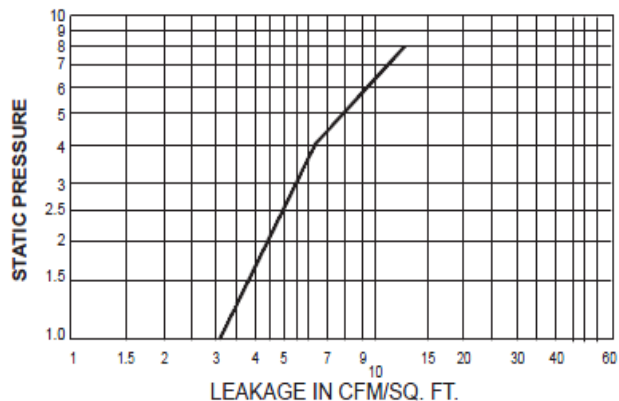


Pressure & Velocity Limitations presented in the adjoining graphs are conservative in order to avoid mis-applications.

Please contact factory for application guidance if your requirements exceed published limitations.



LEAKAGE
DAMPER SIZE 36 x 48



Leakage Performance test was conducted by an independent laboratory in accordance with AMCA Standard 500-D and is expressed as CFM/SQ. FT. of damper face area. Damper requires both blade edge seals and jamb seals to achieve leakage performance depicted.



Installation & Assembly



- System with screws is standard.
- Holes for duct mounting
- Dampers must be installed square and free from racking.
- Dampers with multiple sections in both width and height require structural supports (by others). GMC recommends that large openings be divided with structural members such that dampers will span either the width or height of each opening between the structural members with a single section
- All dampers must be installed with blades running horizontally.
- Connect all damper motors to linkage side of operator blade or to operator shaft.
- Consult factory if application involves static pressures in excess of 2.5 inches w.g
- Front and rear damper flanges are 1" (25.4 mm) larger than duct or opening, around entire perimeter.
- Damper is manufactured so that finished O.D. is 2" (50.8 mm) greater than opening width and height dimensions. .



ORDER CODE

| | | | | | |
|--|----------|---|------------|-------------------|---|
| SSD- | G | 01 | F30 | N 1000X700 | |
| | | | | WxH | |
| SSD: Smoke & Shaft Smoke Evacuation Damper (Shaft Damper) | | | | | F: Frame Size N: Neck Size |
| | | | | | F00: No Flange F25: Flange Width = 25mm F30: Flange Width = 30mm |
| G: With Galvanized Sheet Blade A: With Aluminium Profile Blade | | 00: without grille 01: with grille | | | |