

FD • DFD • FSD • SMD

Life Safety Products

Life safety dampers are intended to protect openings in walls, ceilings, floors and/or partitions to prevent the spread of fire and/or smoke.



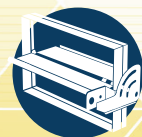
Standard Construction Features

- **EASE OF USE** - Venco offers easy to install dampers with factory mounted accessories, reducing your installation time and saving on labor costs.
- **PERFORMANCE** - Design innovations like Variable Symmetrical Blade (VSB) usage allow us to maximize the damper free area, reducing the overall pressure drop. This increased performance allows you to save operating costs year after year.
- **QUALITY MATERIALS** - Our life safety dampers are built with quality and reliability in mind. Extended damper life, lower torque requirements and lower total cost of ownership are achieved through reinforced corner design and thicker gauge material.
- **CERTIFICATIONS** - At Venco, your building's safety is our priority. That's why our 3rd party certifications confirm our Life Safety Dampers will operate as expected in life safety applications.

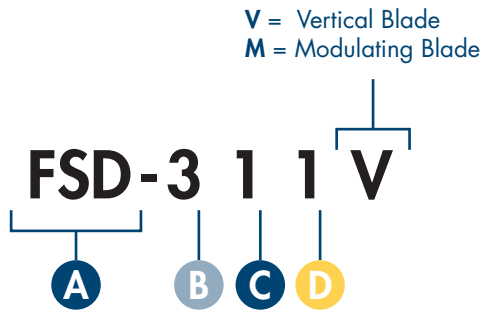
COMMERCIAL APPLICATIONS

- Restaurants • Educational Facilities
• Hospitals • Hotels

DAMPERS



Damper Model Definition



EXAMPLE: Combination Fire Smoke Damper with Vertical Steel Airfoil Blades, 1-1/2 Hour Fire Rating Class I Leakage

Product Type

A

- DFD** Dynamic Fire Damper
- FD** Static Fire Damper
- FSD** Combination Fire Smoke Damper
- FSDR** Round Combination Fire Smoke Damper
- SMD** Smoke Damper
- SMDR** Round Smoke Damper

Blade Style

B

- 1** Curtain Style
- 2** Fabricated Steel with Triple V Reinforcements (3V)
- 3** Fabricated Steel Airfoil
- 4** Extruded Aluminum Airfoil
- 5** Round

Fire Rating

C

- 0** Smoke Damper—No fire rating
- 1** 1-1/2 hours
- 3** 3 hours

Leakage

D

- 1** Leakage Class I
- 2** Leakage Class II
- 3** Leakage Class III

Damper Blade Styles

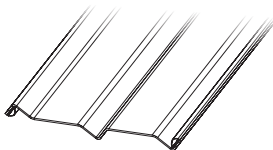
Blade style decisions are based on application, velocity, and the pressure required for your system.

Interlocking Curtain Blades



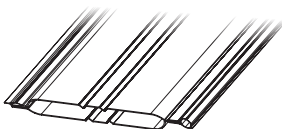
The **curtain blade style** is appropriate for fire damper applications only and airflow velocities up to 4,000 ft/min (20.3 m/s).

3V Blade Style



The **3V blade style** is appropriate for use in airflow velocities up to 2,000 ft/min (10.2 m/s).

Steel Airfoil Blade



Airfoil style blades are appropriate for use with airflow velocities up to 4,000 ft/min (20.3 m/s).

Round Style Blade



A **round style blade** is appropriate for use in airflow velocities up to 3,000 ft/min (15.2 m/s) where you need to connect to round ductwork or where minimum pressure drop is desired.