

Dynamic Rated Round Fire Dampers
1 1/2 Hour Fire Resistance Rating
Application and Design

Model DFDR-510 is a round fire damper. It has been qualified to 2,000 fpm (10.2 m/s) and 4 in. (1kPa) wg for operation as a dynamic closure damper in emergency fire situations. It is qualified to be mounted vertically and horizontally.

Ratings

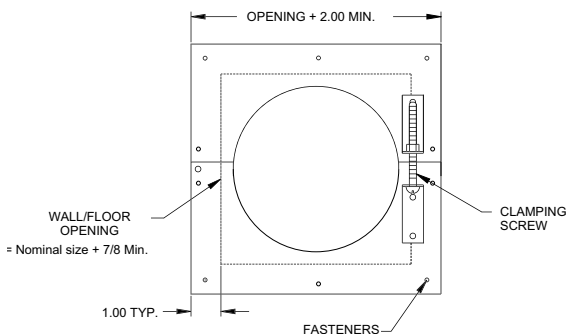
Pressure: 4 in. wg (1 kPa)
 Velocity: 2,000 fpm (10.2 m/s)
 Temperature: 165° F (74°C)

Construction	Standard	Optional
Frame Material	Galvanized Steel	-
Frame Thickness	20 ga. (1mm)	16 ga. (1.5mm), 14 ga. (2mm)
Blade Material	Double skin galvanized steel	-
Blade Thickness	20 ga. (1mm)	-
Axle Bearings	Bronze	316SS
Axle Material	1/2 in. (13mm) Plated Steel	-
Closure Device	Fusible Link	-
Closure Temperature	165°F (74°C)	212°F or 286°F (100°C or 141°C)

Diameter	Minimum	Maximum
in. (mm)	4 in. (102)	24 in. (610)

Features:

- Only one retainer plate required (one retainer plate supplied with damper)
- Additional retainer plate available



Model DFDR-510 meets the requirements for fire dampers established by:

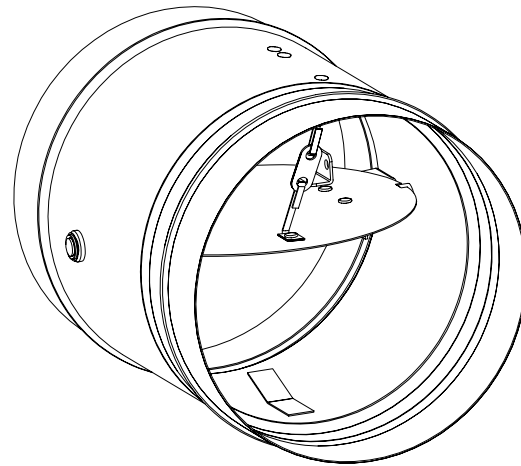
National Fire Protection Association
(NFPA Standards 80, 90A & 101)

Underwriters Laboratories Standard 555
(Listing #R-13317)

IBC International Building Codes

CSFM California State Fire Marshal

Fire Damper Listing (#3225-0981:112)



* These dimensions are furnished approximately 1/8 in. (3mm) smaller than nominal.

WALL THICKNESS	SLEEVE LENGTH
Up to 6.5	13.625
Up to 8.5	15.625
Up to 10.5	17.625
Over 10.5	Consult Greenheck

