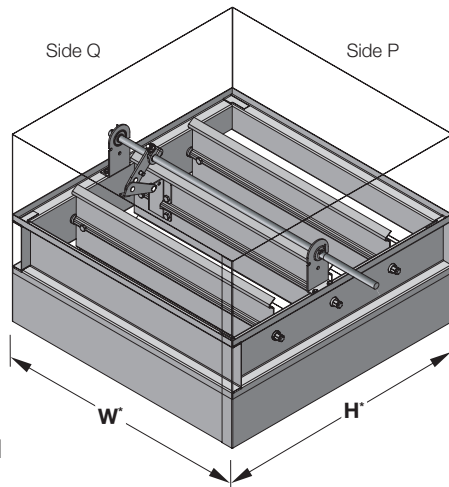




CFS-131
(standard)

*Damper dimensions furnished approximately 1/4" (6) undersize.
(sleeve thickness not included)

Standard Construction

Frame: 5" x 1" (127 x 25) galvanized steel hat channel with interlocking corner gusset. Equivalent to 13 gauge (2.4) channel frame. Low profile head and sill are used on sizes less than 13" (330) high.

Blades: 6" x 16 gauge (152 x 1.6) galvanized steel — triple-V

Sleeve: 14-5/16" x 20 gauge (364 x 1.0) galvanized steel

Axles: 1/2" (13) diameter plated steel hex

Linkage: Concealed in frame

Bearings: Stainless steel oilite, sleeve-type

Seals: Silicone blade edge seals and flexible metal jamb seals

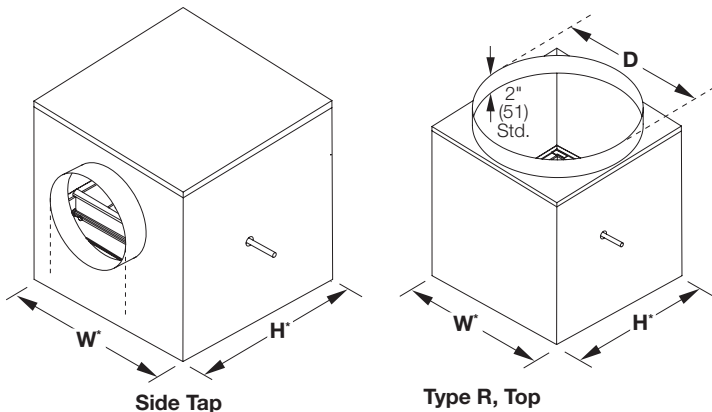
Actuator: 120 VAC, power-open, spring-close, external mount

Fire Closure Device: HS-10 (electric actuators)

Fire Closure Temperature: 165°F (75°C)

Minimum Size: 6" x 6" (152 x 152)

Maximum Size: Square: 12" x 12" (305 x 305)
Rectangle: 24" (610) W or 12" (305) H
with a maximum area of 144 in.² (929 cm²)



Round duct transitions are standard with D=W=H. (available with D<W and H) (shown with top transition only)

The CFS-131 combination ceiling radiation-smoke and fire-smoke damper employs triple-V blades for point-of-origin control of radiant heat, fire, and smoke in static and dynamic smoke management systems. The CFS-131 is installed horizontally in the ceiling membrane of floor-ceiling or roof-ceiling assemblies with fire resistance ratings up to and including 3 hours and is also qualified for smoke membranes to 2,000 ft/min (10.2 m/s) and 4 in. wg. (1.0 kPa) and may be installed horizontally in floors or assemblies with fire resistance ratings up to 2 hours.

Ratings

UL 555C Fire Resistance Rating: 3 hour (horizontal, for use in 1, 2 or 3 hour rated assemblies)

UL 555 Fire Resistance Rating: 1-1/2 hour (horizontal)
1 hour (tunnel-type corridor ceiling)

UL 555S Leakage Class: 1 [8 cfm/sq.ft. @ 4 in.wg.]
[(0.04 m³/s/m² @ 1.0 kPa)]

Maximum Dynamic Closure Velocity: 2,000 fpm (10.2 m/s)

Maximum UL555S Rated Pressure: 4 in.wg. (1.0 kPa)

Maximum Temperature: 350° (177°C)

Listings

UL 555C, 555 and 555S: R14980 and R14981

CSFM listing: 3226-1404:100, 3225-1404:105
and 3230-1404:106

Meets NFPA Standards: 90A, 92A, 92B and 101

Meets Building Code Standards: IBC, NBC, NFPA,
SBC and UBC



Options

■ **Alternate actuator:** ■ 24 VAC ■ 230 VAC

■ **Fire closure device:**

■ HS-10-M (electric actuators)

■ **DRS-30 — Two temperature fire closure device**
(Includes PI-50 switch package)

■ **PI-50 — Dual position indicator switch package**

■ **Transitions:** ■ Round ■ Oval ■ Square/Rectangular
■ Top ■ Bottom ■ Side: ■ W ■ P ■ S & Drive

■ **Blank-off** (top only)

■ **Plaster Ground:** ■ 5.8" (16) deep x 5/8" (16) wide std.

■ 1-1/4" (32) deep x 1-1/4" (32) wide

■ 2" (51) deep x 5/8" (16) wide

■ 4" (102) deep x 5/8" (16) wide

■ **Flange:** ■ 3/4" (19) std. ■ 1" (25)

■ **CRB-24 Thermal blanket for steel backed diffuser**

■ **Duct smoke detector factory mounted and wired**

■ D4120 (100-4,000 fpm [0.5-20.3 m/s])

■ 2151 (0-3,000 fpm [0-15.2 m/s])

■ **Alternate fire closure temperature:**

■ 212°F (100°C) ■ 250°F (121°C)

■ 286°F (141°C) ■ 350°F (177°C)

NOTE: Dimensions in parentheses () are millimeters.
Information is subject to change without notice or obligation.

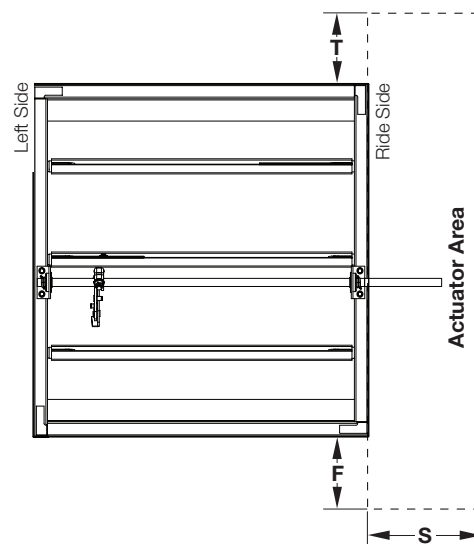
Actuator and Sleeve Dimensional Data

CFS-131

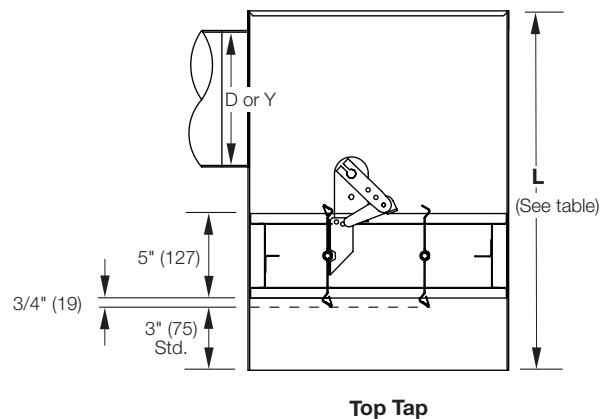
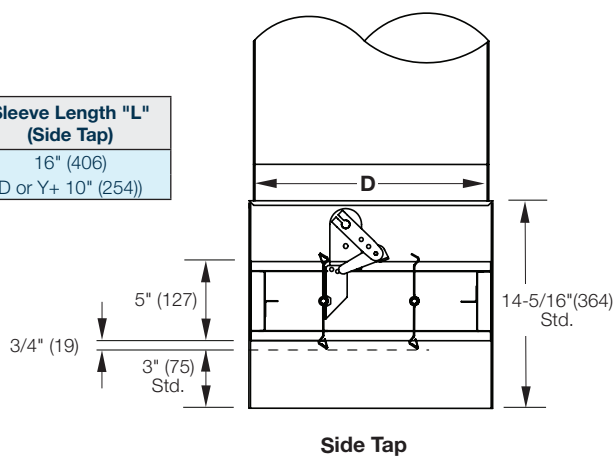
3 hour ceiling • 1-1/2 hour fire • **UL class 1**
Combination Ceiling Radiation-Smoke and Fire-Smoke Damper

	Damper Height	Actuator Model					
		FSLF120 FSLF24	FSNF120 FSNF24	GGD221 GGD121	ML4115 ML8115	331-4826	331-2998
F	6"-7"	5"	7"	9"	5"	9"	13"
	8"-9"	4"	7"	8"	4"	8"	12"
	10"-11"	1"	4"	6"	1"	5"	9"
	12"	0"	3"	5"	0"	4"	8"
T	6" and 10"	3"	3"	3"	3"	3"	3"
	7" and 11"-12"	2"	2"	2"	2"	2"	2"
	8"	1"	1"	1"	1"	1"	1"
	9"	0"	0"	0"	0"	0"	0"
S	All	4-1/2"	4-1/2"	4-1/2"	4-1/2"	5"	7-1/4"
X	<8"	4"	4"	4"	4"	4"	4"
	≥8"	2-5/8"	2-5/8"	2-5/8"	2-5/8"	2-5/8"	2-5/8"
J	<8"	2"	2"	2"	2"	2"	2"
	≥8"	3-3/8"	3-3/8"	3-3/8"	3-3/8"	3-3/8"	3-3/8"

NOTE: For dimensions on actuators not shown above, contact factory.



"D" or "Y" Dimension	Sleeve Length "L" (Side Tap)
D or Y ≤ 6" (152)	16" (406)
D or Y > 6" (152)	D or Y + 10" (254)



Typical Duct Transitions

