

# FSD60XP

## Combination Fire and Smoke Damper

1 1/2 Hour UL555 Rated, UL555S Leakage Class 1

For use in Dynamic & Static Systems



### APPLICATION

The FSD60XP is an FSD60 designed for "explosion proof" applications. The FSD60XP is designed with a spring return fuse link mechanism which causes the damper to close in the event of fire and is additionally equipped with an electric actuator factory installed in a UL and CSA; Class I, Zone 1&2, Groups B, C, D, (NEMA 7), Class II, Division 1&2, Groups E, F and G, (NEMA 9), Class III, Hazardous (classified) Locations, outdoor application NEMA 4. The enclosure is suitable for dangerous locations due to the presence of flammable gases or vapors, combustible dusts or easily ignitable fibers or flyings. The FSD60XP can also be ordered with a rotary position indicator "approved" for dangerous locations.

### STANDARD CONSTRUCTION

Frame	5" x 16 gauge (127 x 1.6) galvanized, single piece, hat-shaped channel, structurally superior to 13 (2.4) gauge channel frame.
Blades	One-piece airfoil, nominal 6" (152) wide and 14 (2.0) gauge galvanized steel equivalent strength. Blades are approximately 6" (152) on center.
Bearings	Stainless steel sleeve type, pressed into frame.
Jamb Seals	Stainless steel, flexible metal compression type.
Blade Seals	Silicone edge type for smoke seal to 450°F (232°C) and galvanized steel for flame seal to 1900°F (1038°C) mechanically fastened to the blade edge.
Linkage	Concealed in frame.

### DAMPER SIZES

Minimum Size	Vertical or Horizontal - 8"w x 6"h (203 x 152)
Maximum single section size	Vertical 32" x 48" (813 x 1219) Horizontal 30" x 48" (762 x 1219)
Multiple Section Size	Vertical - 64"w x 48"h (1626 x 1219) Horizontal - 60"w x 48" h (1524 x 1219)
Heat Release Device	Spring return, fuse link mechanism. 165°F (74°C) standard. 212°F (100°C) is available at no additional cost.

### ACTUATOR AND ENCLOSURE

Actuators	Belimo FSAFxxA Series
Enclosure Ratings	UL and CSA; Class I, Zone 1&2, Groups B, C, D, (NEMA 7), Class II, Division 1&2, Groups E, F and G, (NEMA 9), Class III, Hazardous (classified) Locations, outdoor application NEMA 4.

### MAXIMUM OPERATIONAL RATINGS

UL555S Leakage Rating	Class II
UL555 Hourly Rating	1 1/2 Hour
Maximum Velocity	2000 FPM (20.3 m/s)
Maximum Pressure	4 in. wg (2kPa)
Temperature	250°F (177°C)

### LINKS TO IMPORTANT DOCUMENTS

Document Title
Limited Warranty Document



### OPTIONS

**Factory Sleeves** of various lengths and gauges to ensure field compliance with UL installation requirements.

**Proximity Position Indicator** to allow remote indication of damper blade position. Mark 4 12ALO

**FAST Angle** factory supplied for labor saving angle one-side installations.

**PFMA Picture Frame Mounting Angle** factory supplied for angle two sides installation.

**The FSD60XP meets the requirements for fire, smoke and combination fire/smoke dampers established by:**

- ▶ **National Fire Protection Association**  
NFPA Standards 80, 90A, 92A, 92B, 101 and 105.
- ▶ **ICC International Building Codes**
- ▶ **CSFM California State Fire Marshal**  
Listing (#3235-0245:0124).

#### UL CLASSIFIED

- ▶ UL555 Listing R5531, UL555S Listing R5531
- ▶ Canada ULC-S112 Fire Damper and ULCS112.1 Smoke Damper

#### NOTES:

- Damper are furnished approximately 1/4" (6) smaller than given opening dimensions.
- Dimensions shown in parentheses ( ) indicate millimeters.
- Installation may require special consideration due to the size and weight of the actuator and housing. Consult Ruskin for assistance.



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