

### Dynamic Fire Damper, Horizontal and Vertical

**Model**

Dynamic Fire Damper **FDD-RD**

**Features**

- Model FDD-RD is listed for use in a Dynamic type system where the fan continues to run in the event of a fire for smoke evacuation. This damper has been tested to close at minimum airflows of 2000 fpm at 4" s.p.
- Model FDD-RD have been designed and tested to exceed all U.L., U.L.C., and NFPA requirements for fire dampers. They are UL 555 and ULC S112 listed and labeled as an 1 1/2 hour fire damper.
- UL and ULC listed for vertical and horizontal mountings.
- The jackshaft permits operation by any standard locking quadrant, electric or pneumatic actuator.

**Standard Construction:**

**Frame:** Roll-formed 20 gauge galvanized steel, 16" (406mm) long, integral sleeve.

**Blades:** Double thickness galvanized steel, 14 ga. equivalent with welded channel reinforcement.

**Bearings:** Bronze Oilite press-fit into frame.

**Axles:** 3/8" (10mm) square plated steel.

**Jackshaft:** 1/2" (13mm) diameter plated steel.

**Linkage:** Jackshaft to blade.

**Fusible Link:** 165°F standard, 212°F available.

**Spring:** Stainless steel.

**Finish:** Mill galvanized.

**Sizes:** 8" - 24" (203 mm - 610 mm) dia.

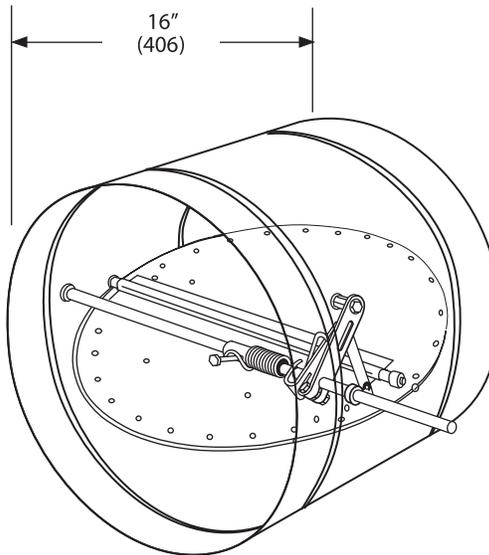
**Retaining Plates:** 2-20 ga. galvanized steel complete with angle clips.

**Options:**

- Sleeve Length
  - 20" (508mm)
  - 24" (610mm)

**Note:** Retaining Plate on operator side of damper is installed at the factory.

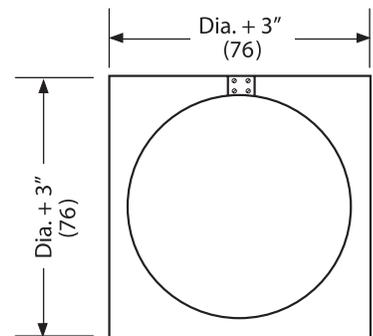
Dampers are furnished approximately 1/8" (3mm) smaller than given duct dimensions.



LISTED AND LABELLED BY:



DESIGNED AND TESTED IN ACCORDANCE WITH UL-555 AND ULC-S112. MEETS ALL NFPA-90A REQUIREMENTS FOR FIRE DAMPERS.



**Retaining Plate  
(2 Supplied)**

**Manufacturer's Recommendations**

All moving parts of the damper must be inspected and cycled at intervals not greater than every six months and in accordance with the latest edition of NFPA 90A, 92A, local codes and the actuator manufacturer. In addition, fuse links shall be removed and inspected for corrosion. Dry lubricants are recommended.

Specifications are correct at time of printing. However, as part of our 'continuous improvement program,' we reserve the right to make further improvements without notice.

<b>PROJECT:</b>			
<b>ENGINEER:</b>			
<b>CUSTOMER:</b>		Jul / 06	
<b>SUBMITTAL DATE:</b>	<b>SPEC. SYMBOL:</b>	245020	

**Model FDD-RD**  
**1½ Hour Rated**  
**True Round**



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Pressure drop testing was done by an independent laboratory to AMCA Standard 500-D, Fig. 5.3 ductwork upstream & downstream.

