



**SUBMITTAL DATA**  
**MODEL FD-R (Static)**  
**FDD-R (Dynamic)**  
**TRUE ROUND FIRE DAMPER**  
U.L. 555 CLASSIFIED 1-1/2 HOURS  
FOR USE IN STATIC OR DYNAMIC SYSTEMS

**Application and Design**

The Model FD-R and FDD-R are UL Classified for installation in walls, floors, and partitions with a fire rating of less than 3 hours. This damper may be installed horizontally or vertically in static systems (FD-R) that shut down in the event of fire or dynamic systems (FDD-R) that continue to operate in the event of fire.

**Standard Construction**

- Frame:** Roll formed Frame - Galvanized Steel - Integral Sleeve
- Blades:** Double Thickness - Galvanized Steel - Welded
- Axles:** 3/8" (9.5mm) square plated steel
- Jackshaft:** 1/2" (12.7mm) diameter plated steel
- Bearings:** Bronze Oilite press-fit into frame
- Spring:** Stainless Steel
- Fusible Link - UL-33:** UL Listed 165°F (Standard), 212°F (Optional)
- Manual Locking Quadrant -**  
(may be required for inspection)
- Retaining Plates:** 2-20 ga. galvanized steel with angle clips  
(factory installed)

Model FD-R and FDD-R meets or complies with the following as a fire damper: All major building codes, including IBC/ICC International Code UL 555 Listing 1-1/2 Hour - File #R25410 ULC S112 NFPA - 90A, 80

**FDD-R**

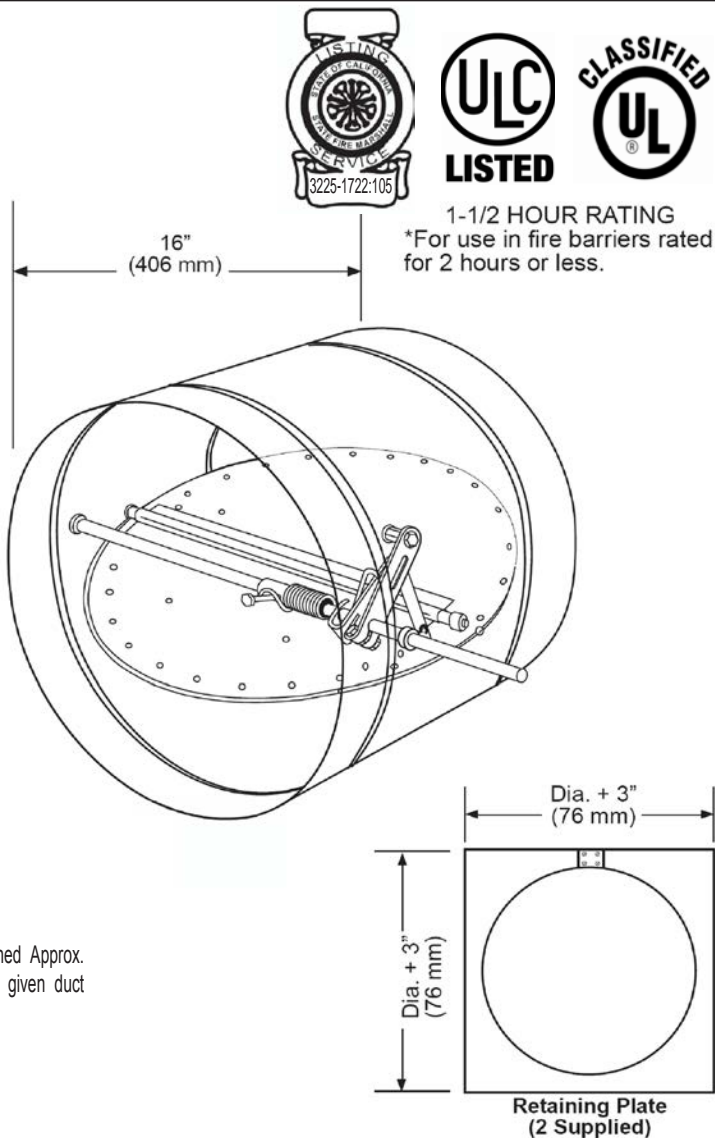
- Maximum Velocity:** 2000 FPM (10.2 M/S)
- Maximum Pressure:** 4" WG (1KPA)

Note: The jackshaft permits operation by any standard locking quadrant, electric or pneumatic actuator.

Note: Dampers are furnished Approx. 1/8" (3.2mm) smaller than given duct dimensions.

Transitions can be added to the ends of the damper to accept ductwork down to 4" in diameter.

Standard Sizes (duct) 1-1/2 hr & 3 hr	
Min. Size	Max. Size
8" Diameter 203mm	24" Diameter 610mm



**Options:**

- Sleeve / Damper Body 20" (508mm)
- Sleeve / Damper Body 24" (609mm)
- Actuator
- Mounting:
  - Horizontal
  - Vertical

Job Name: \_\_\_\_\_

Location: \_\_\_\_\_

Architect: \_\_\_\_\_

Engineer: \_\_\_\_\_

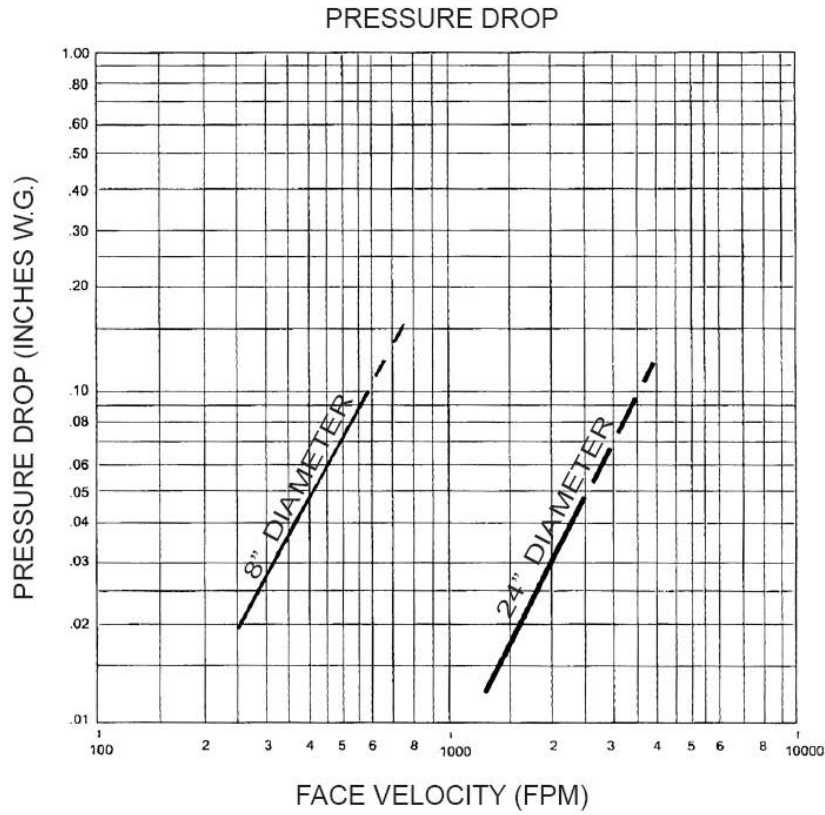
Contractor: \_\_\_\_\_

**MODEL FD-R - Static**

**MODEL FDD-R - Dynamic**

DRAWN BY: MAB	DATE: 11-06-07	REV. DATE: 9/12/11
REV. NO. 9	APPROVED BY: SDC	DWG. NO.: <b>A-27</b>

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



LEAKAGE OBTAINED IN TEST OF 8" DIAMETER AND 24" DIAMETER  
WAS LESS THAN 1 CFM/SQ. FT.