Reference:	Client:	
Project:	Consultant:	
Location:	Contractor:	Manufacturing Excellence Model FDD-RD
Date:	Submitted by:	True Round Dynamic 1-½ Hour, UL555 Classified Fire Damper

### Application:

The CVS-SAFE4 model FDD-RD are True Round fire dampers. The FDD-RD is used to prevent the spread of fire through a penetration in a fire rated barrier made by an HVAC duct or transfer. The FDD-RD can be installed vertically or horizontally. The FDD-RD can be installed in dynamic systems (fans stay on in a fire) as well as static systems (fans shut off in a fire), whereas the FD-RD can only be installed in static systems. The FDD-RD is only available with a 1-1/2 hour UL555 fire rating for installation in walls/floors with less than a 3 hour fire rating.

*Note:* Selecting a square fire damper with round transitions is a more economical solution and usually easier to install in the field.

#### MAXIMUM VELOCITY: 2000 fpm (10.2 m/s) MAXIMUM PRESSURE: 4" wg (1kPa)

### **Standard Construction:**

	Standard	Optional
Frame Material	20 Gauge (1) Galvanized Steel Integral Steel	
Blade Material	Double Thickness Galva- nized Steel, equivalent to 18 gauge with welded channel re-enforcement	
Frame Depth	16" (406)	20" (508) or 24" (610)
Dimensions	Actual - 1/8" (3)	Actual
Axle Bearings	Bronze Oilite (press fit into frame)	
Axle Material	3/8" (10) Square, Plated Steel	
Jackshaft	1/2" (13) Dia. plated steel	
Linkage	Jackshaft to blade	
Spring	Stainless Steel Coil	
Retaining Plates	Two 20 Gauge (1) galvanized steel completed w/ angle clips	
Heat Responsive Device	UL Listed Fusible Link 165°F (74°C)	UL Listed Fusible Link 212°F (100°C)
UL Hour Rating	1-½ Hour	

### Minimum & Maximum Sizes:

True Round Model	Minimum Size	Maximum Size
	1.5 Hour	1.5 Hour
FDD-RD (Vertical)	- 8" Dia. (203)	24" Dia. (610)
FDD-RD (Horizontal)		

All dimensions shown in inches, parentheses () indicate millimeters.

## **Optional Construction:**

#### Factory Integral Sleeve:

Length: 16"(406) Standard 20"(508) 24"(610)

As part of our continuous improvement program, we reserve the right to make further improvements without notice.



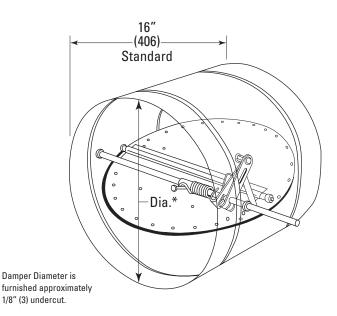


# LISTINGS:

UL 555 Listing: R27700(UAE), R41135(KSA), R40068(Qatar), R41122(Egypt)

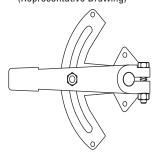
#### **STANDARDS MET:**

NFPA Standards: 80, 90A, 92A, 92B and 101 Building Code Standard: ICC International Building Codes

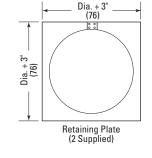


#### **Included Hardware & Mounting Accessories**

Manual Hand Quadrant (Representative Drawing)







## Other Options:

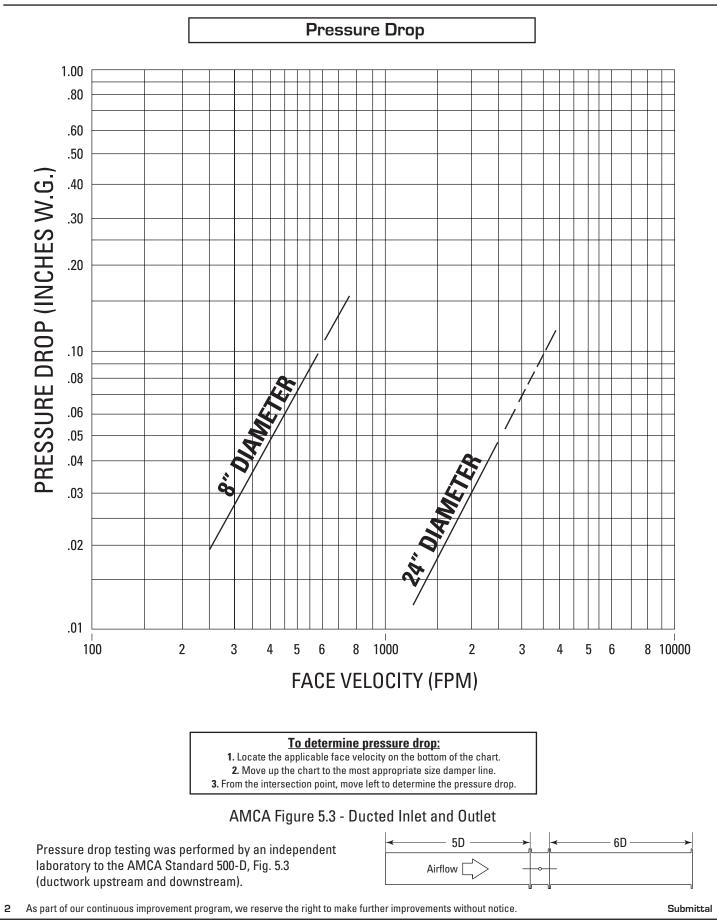
Square fire dampers w/round transitions (see FDD Submittals)

#### Consult CVS for other Special Requirements

Submittal



# PERFORMANCE DATA - Model FDD-RD True Round Dynamic Rated Fire Damper





# ACTUATORS & SLEEVES - Model FDD-RD True Round Dynamic Fire Damper

## **Sleeve Requirements:**

Standard sleeve depth is 16" (406), which is appropriate for use with up to a 5" deep (127) wall/floor and 2-sided mounting angle installation. (See Detail to the right).

When the wall/floor thickness exceeds 5" (127), the FDD-RD can be ordered with an integral sleeve of 20" (508) or 24" (610) to accommodate the thicker wall/floor.

The actuator is always externally installed on the right-hand of the damper when viewed from the jackshaft side. **The damper may be installed/rotated 180°** such that the actuator will be located on the left hand side.

The blade closure line must be within the plane of the fire-rated wall/floor.

