

SUBMITTAL DATA**MODEL FS-RD-I TRUE ROUND****COMBINATION FIRE/SMOKE DAMPER**

U.L.555 AND U.L.C. S112 Listed 1-1/2 Hour Rated

U.L. 555S and U.L.C. S112.1 Listed Class I Leakage

UL File NO.
R25410**Standard Construction**

Frame: Roll-Formed galvanized steel, 18" (457mm) long, integral sleeve .

Blades: Double thickness galvanized steel, 14 Ga. equivalent with angle stiffener re-inforcement

Bearings: Bronze Oilite press-fit into frame.

Seals: Pressure sensitive 450°F silicone sandwiched between blades.

Axes: Ø1/2" (12.7mm) plated steel (sizes 6 thru 14")
Ø3/4" (19 mm) plated steel (above 14" thru 24")

Linkage: Jackshaft to blade.

Controlled Closure Device: (Heat Activated)
EFL-165°F standard, 212°, 250°, 350°F available

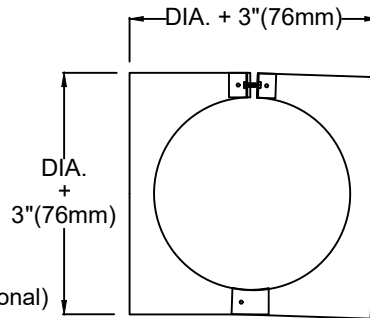
FINISH: Mill galvanized (#304 stainless steel optional)

Maximum Velocity: 4000 fpm (20.4 m/s) on all sizes

Maximum Pressure: 4" wg (1kpa)

Retaining plates: (1 or 2) 18 ga. galvanized steel Clinch plate

U.L. 555S Classified at 250°F or 350°F depending upon Actuator/Operator
*See Actuator/Operator Schedule



Retaining Plate
(1 or 2 supplied,
depending upon
installation type)

Features

- The F/S-RD-I series Combination fire/Smoke Dampers have been designed and tested to exceed all U.L., U.L.C. and N.F.P.A requirements for fire dampers as well as smoke dampers. They are intended for use where building codes call for a fire damper to also operate as a smoke damper.
- U.L. 555 and U.L.C. S112 listed and labeled as a 1-1/2 hour fire damper.
- U.L. and U.L.C. listed for vertical and horizontal mountings.
- U.L. 555S / U.L.C. S112.1 listed and labeled as a Leakage Class I rated Smoke Damper with airflow in both directions. Class I provides for a maximum leakage of 8 cfm per sq. ft. at 4.0 inches static pressure. As we are constantly expanding our U.L./U.L.C. listings, we suggest you contact the factory for current information.

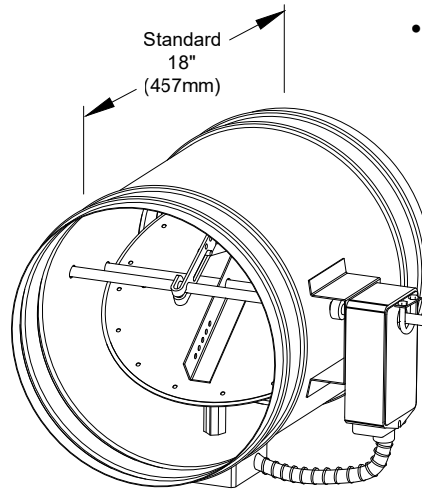
Sizes:

***Minimum Size:** 6" (152mm) diameter
Maximum Size: 24" (610mm) diameter

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

Note:

- 1 or 2 Clinch plates required depending upon installation type (see full installation instructions on sheet P-58).
- Dampers are furnished approximately 1/8" (3.2mm) smaller than given duct dimensions.
- It is recommended the Damper must be inspected and cycled at intervals not greater than every twelve months or in accordance with NFPA 80, 90A, 92A, local codes and the actuator manufacturer.

**Options:**

- ☐ Extended Sleeve/Body Depth
_____ " (up to 36" , depending upon wall depth)
- ☐ #304 Stainless Steel Construction
- ☐ Actuator
☐ Electric, ____ VAC (Voltage)
- ☐ Smoke Detector*
☐ Ionization
☐ Photoelectric
*Must have 24" Sleeve/Body
- ☐ DTO/RE w/ MS package
- ☐ M/S Blade Mounted end switch
- ☐ Built in Actuator position End Switch
- ☐ RCB-1, -2, -3

SUGGESTED SPECIFICATIONS:

Combination Fire/ Smoke Dampers shall be Model: F/S-RD-I by S&P. Fire/Smoke Dampers shall bear the Underwriters Laboratories labels for both Fire Dampers (UL 555/ULC S112) and Smoke Dampers (UL555S / ULC S112.1). UL 555S / ULC S112.1 rating shall be Class I with leakage in cfm per sq. ft. not to exceed 8 cfm per sq. ft. at 4.0 inches static pressure for any size.

Job Name:

Location:

Architect:

Engineer:

Contractor:


☐ **MODEL F/S-RD-I (1-1/2 Hour)**

DRAWN BY:
CLJ

DATE:
4-3-17

REV. DATE:
4-24-26

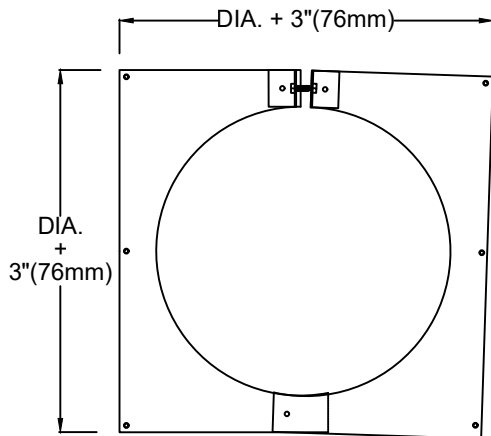
REV. NO.
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APPROVED BY:

DWG. NO.:
P-44

INSTALLATION (See sheet P-58 for full instructions)

CLINCH PLATE



18 GA. CLINCH PLATE INSTALLATION TESTED IN ACCORDANCE WITH UL555 FOR THE FOLLOWING APPLICATIONS FOR **GALV.** **AND S.S.** CONSTRUCTION DAMPERS:

CONCRETE PARTITIONS

(SINGLE SIDE CLINCH PLATE - VERTICAL APPS.)

(DOUBLE SIDE CLINCH PLATE - FOR HORIZONTAL APPS.)

STEEL/GYPSUM PARTITIONS

(SINGLE SIDE CLINCH PLATE - VERTICAL APPS.)

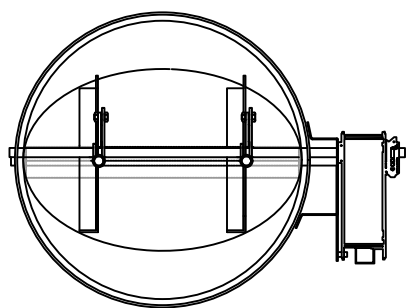
(DOUBLE SIDE CLINCH PLATE - HORIZONTAL APPLICATIONS)

WOOD/GYPSUM PARTITIONS

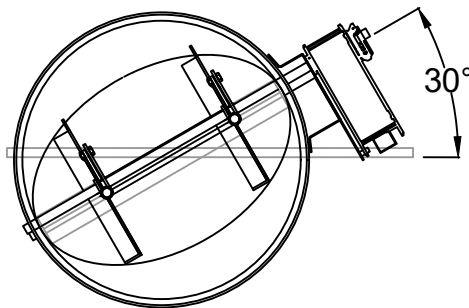
(SINGLE SIDE CLINCH PLATE - VERTICAL APPS. ONLY)

Fire-Rated Partition Type	Damper Orientation	Number of Clinch Plates Required	Number of Fasteners (Per Clinch Plate)	Max. Fastener Spacing	Fastener Type
Metal/Gypsum	Vertical	1	6 (3 per side)	10"	#8 x 2-3/8" drywall screw
Wood/Gypsum	Vertical	1	6 (3 per side)	10"	#8 x 2-3/8" drywall screw
Concrete	Vertical	1	6 (3 per side)	10"	3/16" x 1-1/4" tapcon
Metal/Gypsum	Horizontal	2	6 (3 per side)	10"	#8 x 2-3/8" drywall screw
Concrete	Horizontal	2	6 (3 per side)	10"	3/16" x 1-1/4" tapcon

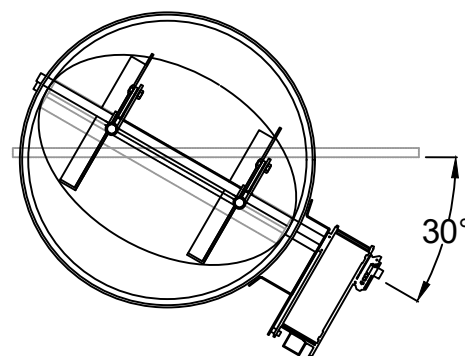
CANTED INSTALLATION



NORMAL
BLADE
ORIENTATION



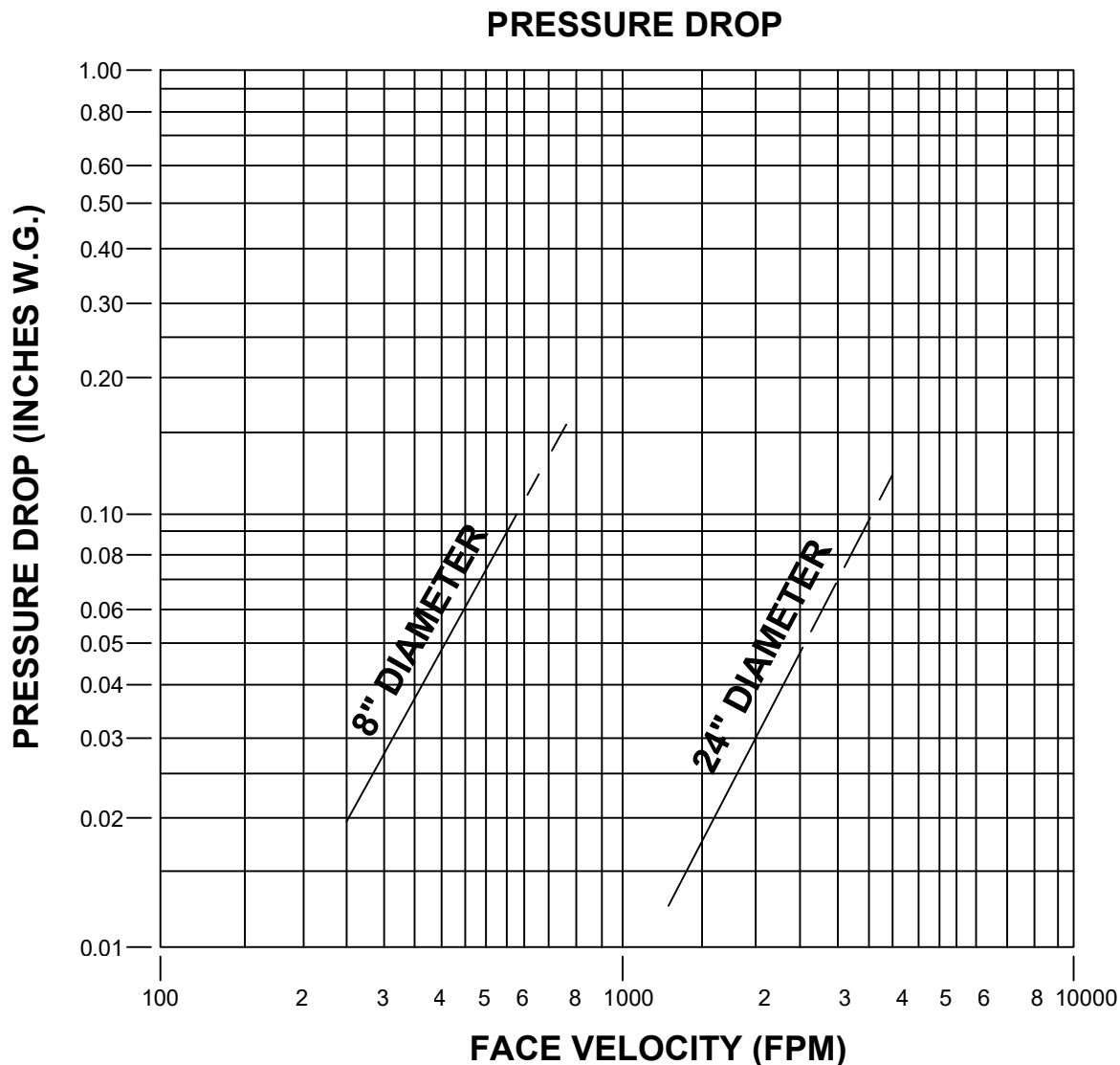
30° OFF
HORIZONTAL(MAX.)
BLADE
ORIENTATION



30° OFF
HORIZONTAL(MAX.)
BLADE
ORIENTATION

PERFORMANCE DATA

Pressure drop testing was done by an independent laboratory,
ductwork upstream & downstream



LEAKAGE OBTAINED IN TEST OF 6\" DIAMETER AND 24\" DIAMETER WAS LESS THAN 1 CFM/SQ.FT AT 4\" W.G. (CLASS I)