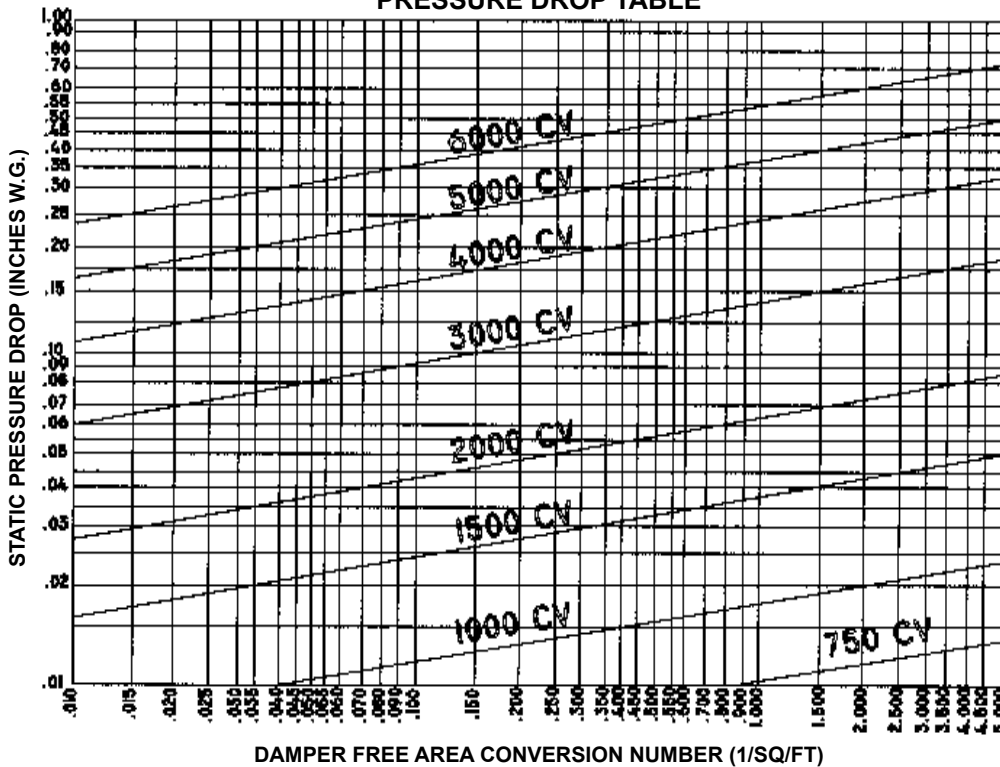


FIRE/SMOKE DAMPER FREE AREA CONVERSION (1/FA)

| | | WIDTH (INCHES) | | | | | | | | |
|-----------------|----|----------------|------|------|------|------|------|------|------|------|
| | | 8 | 12 | 16 | 20 | 24 | 28 | 30 | 32 | 36 |
| HEIGHT (INCHES) | 8 | 4.75 | 2.85 | 2.05 | 1.60 | 1.30 | 1.20 | 1.10 | 1.05 | 1.00 |
| | 10 | 4.00 | 2.35 | 1.70 | 1.35 | 1.10 | .920 | .850 | .825 | .810 |
| | 12 | 3.35 | 2.05 | 1.45 | 1.15 | .920 | .775 | .730 | .710 | .650 |
| | 14 | 2.60 | 1.60 | 1.15 | .880 | .720 | .590 | .565 | .555 | .500 |
| | 16 | 2.20 | 1.35 | .925 | .720 | .590 | .500 | .465 | .455 | .400 |
| | 20 | 1.70 | 1.00 | .725 | .565 | .465 | .390 | .365 | .350 | .310 |
| | 24 | 1.40 | .835 | .600 | .465 | .380 | .325 | .300 | .285 | .250 |
| | 28 | 1.15 | .680 | .485 | .375 | .310 | .265 | .245 | .230 | .205 |
| | 32 | .995 | .595 | .425 | .330 | .275 | .230 | .215 | .200 | .180 |
| | 36 | .880 | .530 | .380 | .295 | .240 | .205 | .190 | .180 | .160 |

Free area factors listed are for standard type "A" sleeves. For "D" type sleeves, free area conversion number is equal to 1/nominal duct area.

PRESSURE DROP TABLE

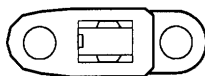


TO DETERMINE DAMPER PRESSURE DROP:

1. Establish the free area conversion number (FA): Use the free area conversion table to determine the free area conversion number based on the damper width x height. (Example: 24"w x 24"h damper = .38 FA)
2. Establish the conversion velocity (CV): Use the formula: $CV = CFM \times FA$. (Example: $CV = 4000 CFM \times .38 FA$) (CV = 1520 FPM)
3. Determine the pressure drop: Using the pressure drop table find the free area conversion number (.38) on the bottom line of the table.
4. Project a line vertically locating the conversion velocity previously determined.
5. Project this intersect horizontally to the left or right and read the pressure drop in inches of water. (Example: .03 inches W.G.)

Fusible Links for series FSD, CFSD & 2800 dampers:

- #50a 165 degree fusible link, small
- For 2800 Dynamic damper only:
- #52a 212 degree fusible link, small
- #54a 265 degree fusible link, small



Rapid Mounting Angle for Fire Dampers:

- UL approved for all fire, smoke/fire damper installations in metal studs and concrete/masonry walls and floor
- Rapid Mounting Angle wraps around the sleeve, completing installation from one side.
- For field mounting

Retaining Angle for Fire Dampers:

- 1-1/2 x 1-1/2 x 16 gauge cold formed galvanized angle
- Pre-punched 7/32 holes for faster fastening of angle to sleeve
- Hole spacing is 3" on center
- 4 piece sets

