

# FIRE/SEAL® UL-CLASSIFIED 3-HR. STATIC RATED FIRE DAMPER

**MODEL 317C**  
Vertical & Horizontal

Classified by Underwriters Laboratories as a 3-hour fire protection rated Fire Damper, FOR USE IN STATIC SYSTEMS, in accordance with Standards UL-555 and NFPA-90A, for the protection of openings in fire partitions having a fire resistance rating of 3 hours or more.

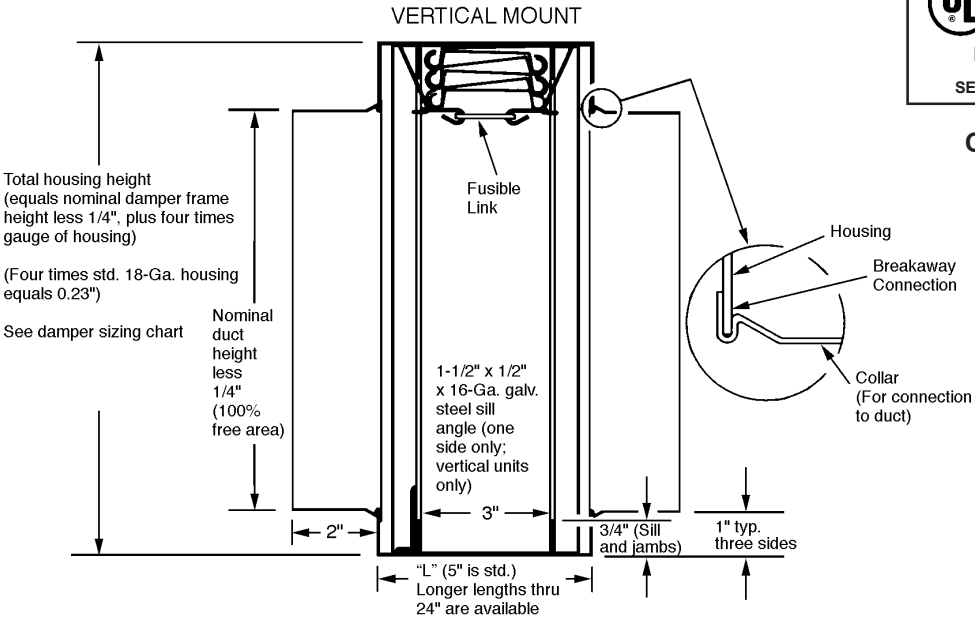
**RECTANGULAR, ROUND, & OVAL**

WELDED SEAM HOUSING designed for High Pressure HVAC Systems (Max. Pressure: 6" wg.) and provides 100% FREE AREA.

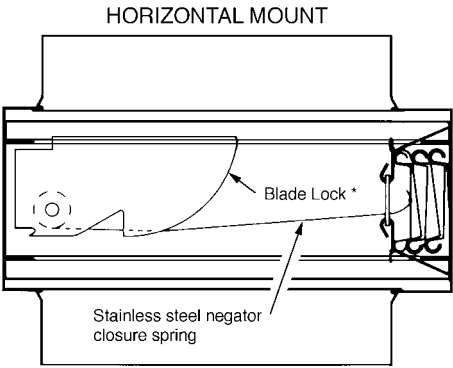
UNDERWRITERS LABORATORIES INC.  
**CLASSIFIED**  
**FIRE DAMPERS**  
**FIRE RESISTANCE RATING 3 HR.**  
SEE U.L. CLASSIFIED BUILDING MATERIALS INDEX

Arrow United Industries

California State Fire Marshal  
Listing No. 3225-1328:101



**IMPORTANT**  
FOR ROUND DUCT DIAMETERS UP TO 36", AND FOR OVAL DUCT SIZES UP TO 71" W X 30" H, ARROW'S 22-GA DUCT CONNECTION COLLAR (CRIMPED TO THE DAMPER HOUSING) CONSTITUTES A U.L.-APPROVED DUCT-TO-SLEEVE "BREAKAWAY" CONNECTION, THUS ALLOWING A RIGID CONNECTION JOINT TO BE UTILIZED BETWEEN THE DAMPER'S DUCT CONNECTION COLLAR AND THE ROUND OR OVAL DUCTWORK.



[ \* ] Damper to be installed with blade lock points facing DOWNWARD and with access from above.

**DIMENSIONAL DATA:**

- MINIMUM SIZE: 4" W x 4" H (Duct), 6" W x 7" H (Frame).
- MAXIMUM SIZE - VERTICAL (Galvanized Steel):  
Single Panel: 34" W x 31" H (Duct), 36" W x 36" H (Frame).  
Multiple Panel: 70" W x 67" H (Duct), 72" W x 72" H (Frame).
- MAXIMUM SIZE - VERTICAL (Stainless Steel):  
Single Panel: 45" W x 41" H (Duct), 47" W x 48" H (Frame).  
Multiple Panel: 91" W x 41" H (Duct), 93" W x 48" H (Frame).
- MAXIMUM SIZE - HORIZONTAL (Galvanized Steel):  
Single Panel: 46" W x 42" H (Duct), 48" W x 48" H (Frame).  
Multiple Panel: 70" W x 31" H (Duct), 72" W x 36" H (Frame).

NOTE: Dampers should be ordered by nominal duct size. Fractional duct dimension (1/8" min.) will require the same fractional addition to the corresponding damper housing dimension.

**STANDARD MATERIALS & CONSTRUCTION:**

- FRAME: One-piece rollformed 22-GA galvanized steel.
- BLADES: 22-GA galvanized steel curtain-type.
- WELDED-SEAM HOUSING: 18-GA galvanized steel (Std.).
- DUCT CONNECTION COLLAR: 22-GA galvanized steel.
- FUSIBLE LINK: UL-listed 165°F; replaceable. (Optional 212°F available at no additional charge.)
- CLOSURE SPRINGS: Heat-treated Type 301 stainless steel constant force coiled negator type.

- PROJECT:
- LOCATION:
- ARCHITECT:
- ENGINEER:
- CONTRACTOR:
- PO NUMBER:
- DATE:

Arrow United Industries  
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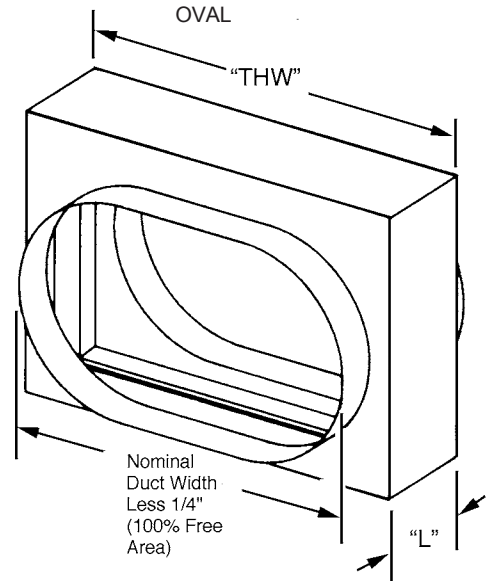
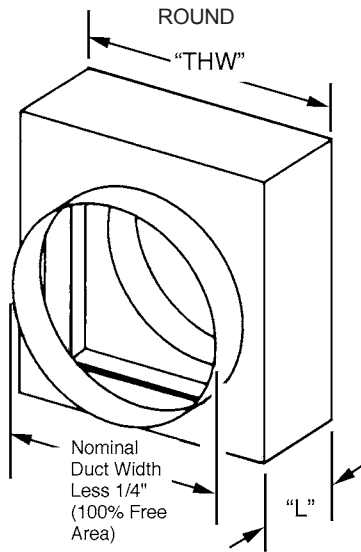
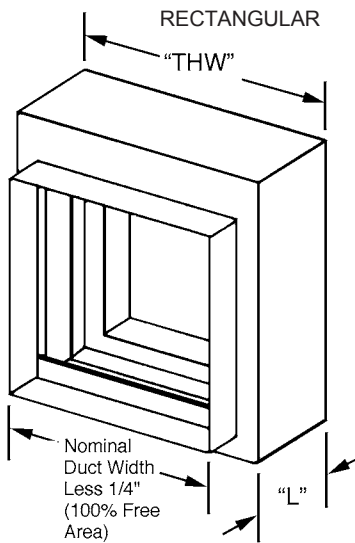
MEMBER OF AMCA

Additional information on reverse side.

# ARROW UNITED INDUSTRIES SUBMITTAL DATA

## FIRE/SEAL® UL-CLASSIFIED 3-HR. STATIC RATED FIRE DAMPER

**MODEL 317C**



"THW": Total Housing Width } Equals Nominal Duct Width less 1/4", Plus 2",  
Plus Four Times Gauge of Housing:  
(Four times standard 18-Ga. housing equals 0.23").

### VERTICAL (Model 317CV)

|   | IF NOMINAL DUCT HEIGHT IS: | INCHES TO ADD FOR NOMINAL DAMPER FRAME HEIGHT: |
|---|----------------------------|--|
|   | SINGLE PANEL               |  |
| GALVANIZED OR STAINLESS                   | 4" thru 18"                | 3"   |
|   | 19" thru 28"               | 4"   |
| STAINLESS ONLY                            | 29" thru 31"               | 5"   |
|   | 32" thru 40"               | 5"   |
|   | 41"                        | 6"   |
| MULTIPLE PANEL                            |                            |  |
| GALVANIZED ONLY (STAINLESS NOT AVAILABLE) | 32" thru 36"               | 3"   |
|   | 37" thru 60"               | 4"   |
|   | 61" thru 67"               | 5"   |

### DAMPER SIZING CHARTS

Width:  
Add 2" to Nominal Duct Width.

See  
**DIMENSIONAL DATA**  
on front side.

### HORIZONTAL (Model 317CH)

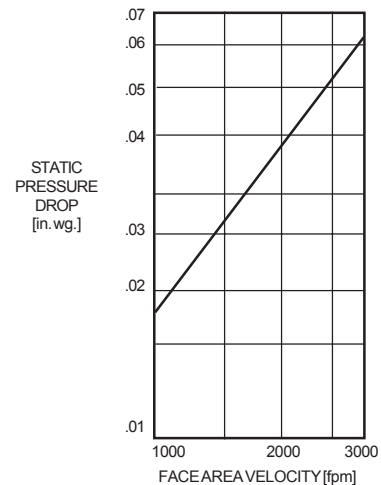
| IF NOMINAL DUCT HEIGHT IS: | INCHES TO ADD FOR NOMINAL DAMPER FRAME HEIGHT: | GALVANIZED STEEL ONLY (STAINLESS STEEL NOT AVAILABLE) |
|----------------------------|--|---|
| 4" THRU 18"                | 3"   |   |
| 19" THRU 28"               | 4"   |   |
| 29" THRU 40"               | 5"   |   |
| 41" THRU 42"               | 6"   |   |

With 100% Free Area, Pressure Drop is determined by  
**FACE Area Velocity (in lieu of Free Area Velocity).**

$$\text{FACE AREA VELOCITY [fpm]} = \frac{\text{FLOW [cfm]}}{\text{FACE AREA [sq. ft.]}}$$

### AVAILABLE OPTIONS:

- 16-GA through 10-GA housing.
- Housing length ("L" dimension) of 6" through 24".
- Type 304 stainless steel construction.  
(available for Vertical Mount dampers only).
- 212°F fusible link.
- Electro Thermal Link [ETL®].
- SPDT "closed damper" position indicator switch.



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IN THE INTEREST OF PRODUCT DEVELOPMENT, ARROW UNITED RESERVES THE RIGHT TO MAKE CHANGES WITHOUT NOTICE.