

ARROW UNITED INDUSTRIES SUBMITTAL DATA

FIRE/SEAL® UL-CLASSIFIED 1-1/2 HR. STATIC RATED FIRE DAMPER RECTANGULAR, ROUND & OVAL

MODEL 117C
Vertical & Horizontal

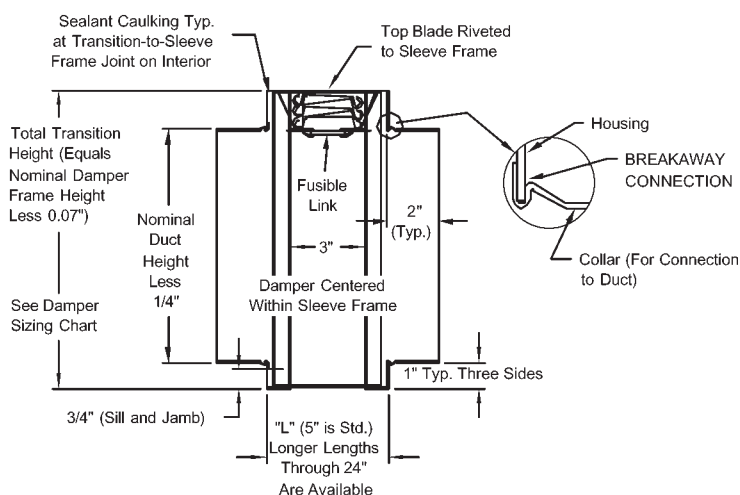
DESIGNED FOR HIGH PRESSURE HVAC SYSTEMS, AND PROVIDES 100% FREE AREA. PRESSURE TESTED PER AMCA STANDARD 500 TO 6 in. wg.

Classified by Underwriters Laboratories as a 1-1/2 hour fire protection rated Fire Damper, in accordance with Standards UL-555 and NFPA-90A, for the protection of openings in fire partitions having a fire resistance rating of less than 3 hours.

UNDERWRITER'S LABORATORIES, INC.
CLASSIFIED
FIRE DAMPERS
FIRE RESISTANCE RATING 1-1/2 HR.
SEE U.L. CLASSIFIED BUILDING MATERIALS INDEX

Arrow United Industries

VERTICAL MOUNT

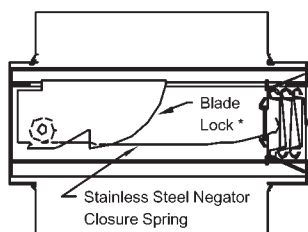


California State Fire Marshal Listing
No. A3225-1328:100

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 UL 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.

HORIZONTAL MOUNT



(*) Damper is 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 (Model 117CV):

Single Panel: 58"W x 54"H (Duct), 60"W x 60"H (Frame).

Multiple Panel: 118"W x 75"H (Duct), 120"W x 80"H (Frame).

MAXIMUM SIZE - Horizontal (Model 117CH):

Single Panel: 46"W x 42"H (Duct), 48"W x 48"H (Frame).

Multiple Panel: 95"W x 37"H (Duct), 97"W x 42"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.

PROJECT:

LOCATION:

ARCHITECT

ENGINEER:

CONTRACTOR:

PO NUMBER:

DATE:

STANDARD MATERIALS & CONSTRUCTION:

FRAME: One-piece rollformed 22 Ga. galvanized steel.

BLADES: 22 Ga. galvanized steel curtain-type.

DUCT CONNECTION COLLAR: 22 Ga. galvanized steel.

FUSIBLE LINK: UL-listed 165°F; replaceable. (Optional 212°F available at no additional charge.)

CLOSURE SPRINGS (Horizontal Models): Heat-treated Type 301 stainless steel constant force coiled negator type.

*Additional Information
on reverse side*

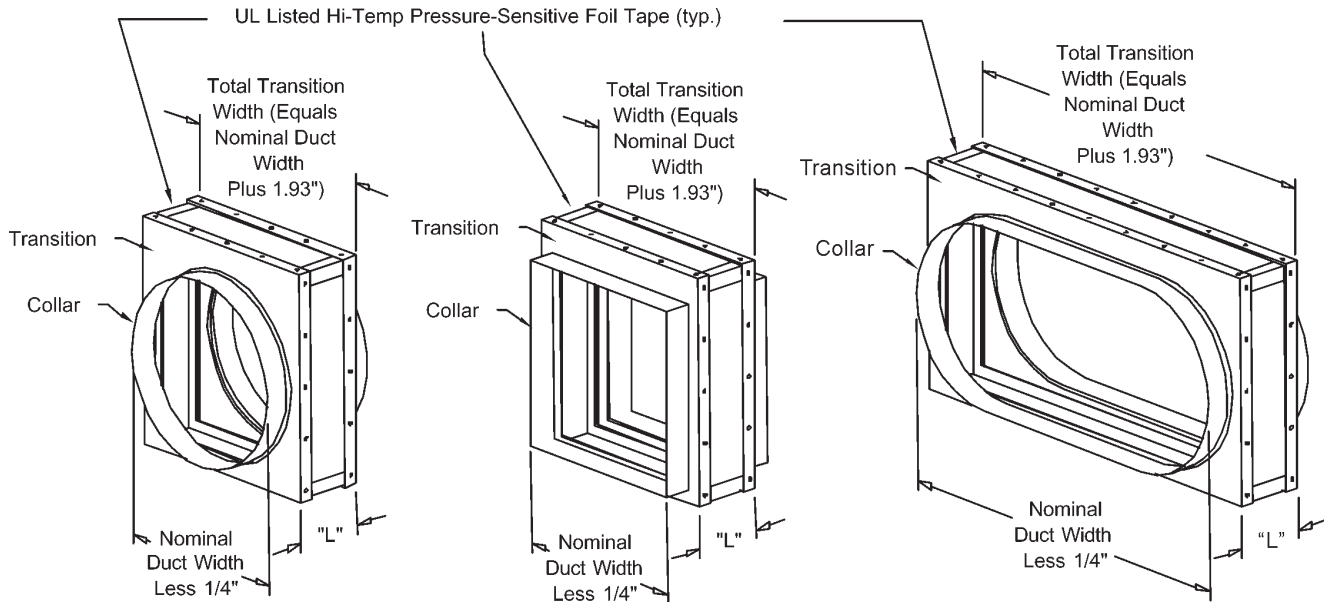


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**FIRE/SEAL® UL-CLASSIFIED
1-1/2 HR. STATIC RATED FIRE DAMPER**

MODEL 117C



DAMPER SIZING CHART

Width: Add 2" to Nominal Duct Width

Height:

	IF NOMINAL DUCT HEIGHT IS:	INCHES TO ADD FOR NOMINAL DAMPER FRAME HEIGHT:
	4" through 18"	3"
	19" through 28"	4"
*	29" through 40"	5"
	41" through 42"	6"
VERTICAL UNITS ONLY	43" through 54"	6"
VERTICAL MULTIPLE UNITS ONLY	55" through 57"	4"
	58" through 75"	5"

(*) NOTE: MAXIMUM DUCT HEIGHT FOR HORIZONTAL UNITS:
Single Panel Dampers: 42" DUCT Height.
Multiple-Panel (Wide) Dampers: 37" Height.
See DIMENSIONAL DATA on front side.

AVAILABLE OPTIONS:

- 18 Ga. through 10 Ga. housing.
- Housing length ("L" dimension) or 6" through 24".
- Type 304 stainless steel construction.
- 212°F fusible link.
- Electro Thermal Link [ETL®].
- SPDT "closed damper" position indicator switch.

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

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

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

