

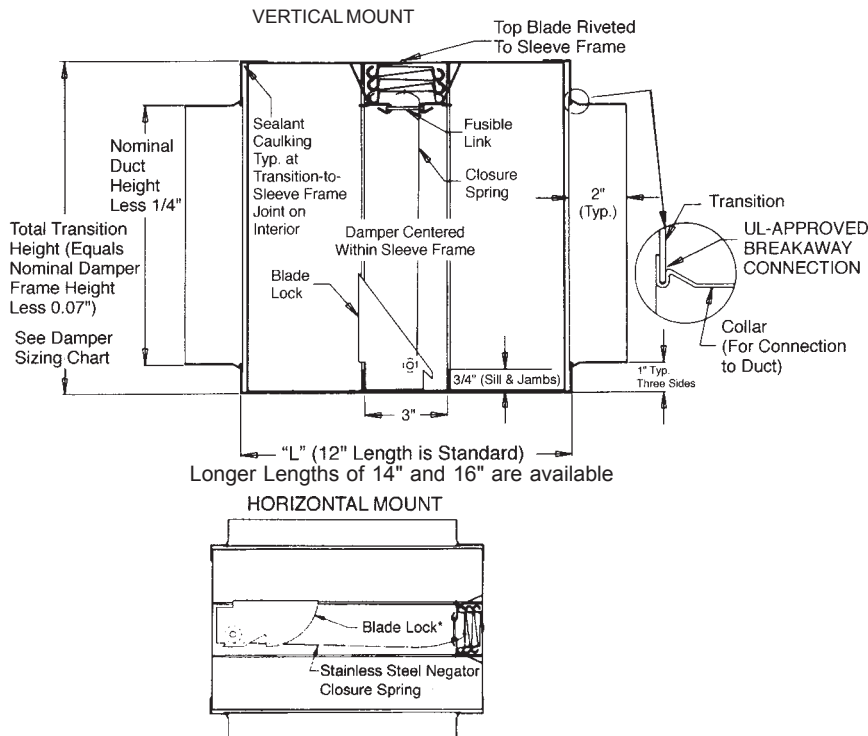
FIRE/SEAL® UL-CLASSIFIED 1½-HR. DYNAMIC RATED FIRE DAMPER WITH INTEGRAL SLEEVE FRAME

**MODEL D17X
"C" STYLE**
Vertical & Horizontal Mount

RECTANGULAR, ROUND & OVAL

DESIGNED FOR HIGH PRESSURE HVAC SYSTEMS, AND PROVIDES 100% FREE AREA. PRESSURE TESTED PER AMCA STANDARD 500 TO 6 in. wg. LEAKAGE PERFORMANCE OF TRANSITIONED INTEGRAL SLEEVE FRAME WITH TAPE & SEALANT CAULKING IS EQUAL TO THAT OF A WELDED SEAM "C"-TYPE HOUSING.

Classified by Underwriters Laboratories as a 1½-hour fire protection rated Fire Damper, FOR USE IN DYNAMIC SYSTEMS, 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.



(*) Damper to be installed with blade lock points facing DOWNWARD and with access from above.

UNDERWRITERS LABORATORIES INC.



CLASSIFIED

FIRE DAMPERS

FIRE RESISTANCE RATING **1½ HR.**

SEE U.L. CLASSIFIED BUILDING MATERIALS INDEX

**California State Fire Marshal
Listing No. 3225-1328:100**

IMPORTANT

Arrow's 22-GA Duct Connection Collar (crimped to the damper transition) 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.

STANDARD MATERIALS & CONSTRUCTION:

SLEEVE FRAME: One-piece rollformed 20-GA galvanized steel.

BLADES: 22-GA galvanized steel curtain-type.

TRANSITIONS ["CAPS"]: 20-GA galvanized steel, riveted to sleeve frame.

DUCT CONNECTION COLLARS: 22-GA galvanized steel, crimped to transitions.

SEALANT CAULKING: UL-listed high-temperature type.

TAPE: UL-listed high-temperature pressure sensitive foil type.

FUSIBLE LINK: UL-listed 165°F; replaceable. (Optional 212°F available (**Vertical Mount Only**) at no extra charge.)

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

DIMENSIONAL DATA:

MINIMUM SIZE: 4" W x 4" H (Duct), 6"W X 7"H (Sleeve Frame).

MAXIMUM SIZE:

VERTICAL:

Single Panel: 34"W x 31"H (Duct), 36"W x 36"H (Sleeve Frame).

Multiple Panel: Not Available.

HORIZONTAL:

Single Panel: 22" W x 20" H (Duct), 24"W x 24"H (Sleeve Frame).

Multiple Panel: Not Available.

NOTE: Dampers should be ordered by nominal duct size.

PROJECT:

LOCATION:


ARCHITECT:

ENGINEER:

CONTRACTOR:

PO NUMBER:

DATE:

 Arrow United Industries
A Division of Mestek, Inc.
314 Riverside Drive • Wyalusing, PA 18853
Ph: (570)-746-1888 Fax: (570)-746-9286
www.arrowunited.com

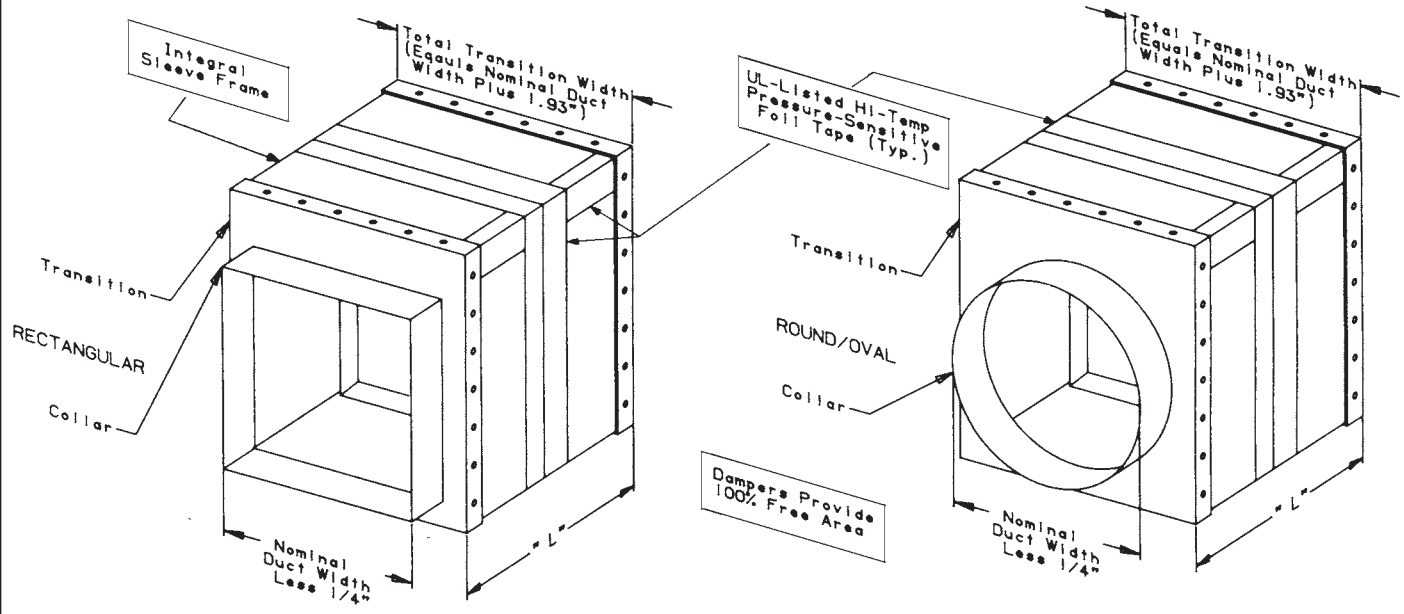
MEMBER OF AMCA

*Additional information
on reverse side.*

ARROW UNITED INDUSTRIES SUBMITTAL DATA

FIRE/SEAL® UL-CLASSIFIED 1½-HR. DYNAMIC RATED FIRE DAMPER WITH INTEGRAL SLEEVE FRAME

**MODEL D17X
"C" STYLE**



NOTES:

1. Rated at 2000 fpm, 4 in. wg.
2. When a dynamic fire damper closes under airflow conditions, due to inertia, a momentary negative pressure spike (vacuum) can occur on the downstream side of the closed damper. This situation should be taken into consideration by the Engineer/System Designer.

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

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

DAMPER SIZING CHART

Width: Add 2" to Nominal Duct Width

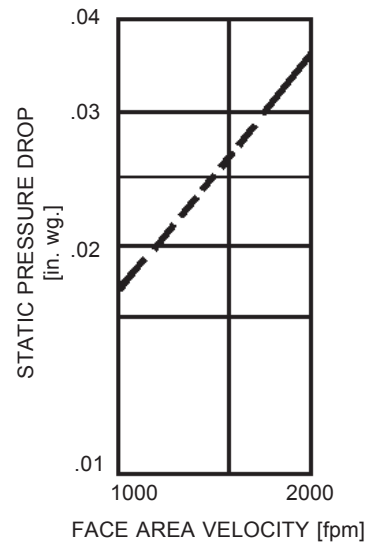
HEAD SIZING CHART

IF NOMINAL DUCT HEIGHT IS:	INCHES TO ADD FOR HEAD:
6" THRU 18"	3"
19" THRU 28"	4"
29" THRU 31"	5"

See DIMENSIONAL DATA on front side.

AVAILABLE OPTIONS:

1. Sleeve frame length ("L" dimension) of 14" or 16".
2. 212°F fusible link (Vertical Mount Only).
3. Electro Thermal Link [ETL®].
4. SPDT "closed damper" position indicator switch.



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