

Air Management Inc.

CORRIDOR FIRE/SMOKE DAMPER

INSTALLATION INSTRUCTIONS

HORIZONTAL MOUNT 1 HR RATED DAMPERS

Dampers shall be fastened to sleeve with No.10 x 3/4 Sheet Metal Screws on 6" centers (max). No further than 2" from end. See notes 2 and 3 for duct connections. Angles shall be a minimum of 1-1/2" X 1-1/2" X 1/16" and fastened to the sleeve and damper only on all (4) sides with 1/4" bolts, 1/2" long welds, or #10 sheet metal screws on 8" maximum centers. (See note 4 for expansion and overlap.) Angles shall not be fastened to each other at the corners or fastened to the fire wall. Assemblies supplied for diffusers/grills may be installed with 1-1/2 x 1-1/2 x 1/16" angles reverse mounted for the grill surface. Installation per NFPA.90A, UL555, and SMACNA Fire Smoke and Radiation Installation Guide.

FASTENERS MUST BE PLACED WHERE THEY DO NOT INTERFERE WITH THE DAMPER OPERATION

NOTES:

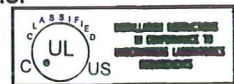
1. Sleeves shall be of the same gauge or heavier than the duct to which it is attached. Gauges shall conform to SMACNA or ASHRAE standards.
2. When the following sleeve connections are used, the minimum gauge of the sleeve shall be 16 gauge on dampers not exceeding 24"W X 24"H.
 - a. Angle reinforced standing seam.
 - b. Angle reinforced pocket lock.
 - c. Companion angles.
 - d. Metal fasteners approximately 16" on centers.
3. The following breakaway sleeve connections may be used on all systems:

a. Plain "S" slip	e. Reinforced bar slip
b. Hemmed "S" slip	f. Angle slip
c. Bar slip	g. Inside slip joint
d. Standing "S" slip	h. Double "S" slip
4. Clearance for expansion of 1/8" per foot of sleeve dimension is practical. Angles should lap rated ceilings a minimum of 1" around the entire opening.
5. Maximum Sleeve Extension is 6" on Both Sides of the rated ceiling surface.

Exceptions:

Maximum Sleeve Extension is 16" on a damper equipped with an actuator, on the actuator side of the damper only.

Maximum Sleeve Extension is 16" opposite to the actuator side of the damper only when an access door is provided.
6. Dampers may be installed outside the rated ceiling surface, provided that the edge of the damper frame does not exceed 3" from the rated surface and a qualified thermal blanket is installed around the sleeve 8" high.
7. The connecting ducts shall not be continuous, but shall terminate at the sleeve or frame.
8. Dampers supplied with factory mounted actuators are designed to close automatically upon detecting heat, or the loss of actuator power.
9. Installation requires the "Air Flow Direction Arrow" pointing to the "Downstream Air Flow Side" of the damper in static and dynamic systems.
10. The jackshaft side of the damper may be installed either "Upstream" or "Downstream" contingent on the "Air Flow Direction Arrow".
11. A continuous bead of Dow Corning RTV-732, Dow Corning 999A, or GE-1200 Silicone Rubber Sealant shall be applied between the damper and the sleeve for its entire profile on one side of the installation as a minimum.
12. Installed damper units require operational checks upon completion.
13. An Access Door is a NFPA requirement for damper inspection and testing.
14. For use in static and dynamic systems at labeled temp, velocities, and W.G.
15. Electric actuator connections shall conform to the National Electric Code.
16. Pneumatic actuators require metallic airline connections, and a minimum of 20 PSI supply air. (Not to exceed 30 PSI)
17. CAUTION: THE HEAVY DAMPER CLOSURE SPRING IS UNDER LOAD.



MAXIMUM DAMPER SIZES

TYPE	SINGLE UNITS IN INCHES	
	Height	Width
HORIZONTAL	24	24

MULTIPLE SECTIONS

For Multiple Section Assemblies for openings larger than 24" x 24" refer to the Mullion Installation Instruction Sheets.

FUSIBLE LINKS

Temperature rating is not to exceed 285° F 165° F is standard. Located in pin grooves.

