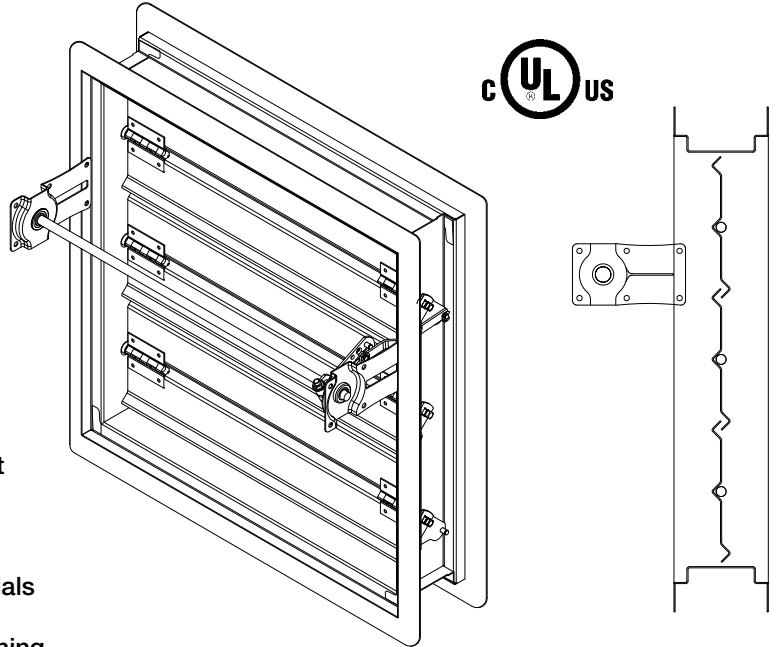


INSTALLATION INSTRUCTION SUPPLEMENT

Refer to:
'Installation Instructions for SMD, SESMD, SSSMD, SMDR, SESMDR, and SSSMDR series Models' (Part #) for additional details.

**SMD-xxx, SESMD-xxx,
SSSMD-xxx Series
Smoke Dampers**

**"UL CLASSIFIED
(see complete marking on product)"**
**"UL CLASSIFIED to Canadian safety standards
(see complete marking on product)"**
Standards UL 555 & 555S
Classifications Filed at UL under Listing #R13317



1. SMOKE DAMPER REQUIREMENTS AND APPLICATION

Smoke dampers are required to close and prevent the passage of air and smoke through ducts or ventilation openings in smoke barriers. Smoke dampers are also applied in engineered smoke control systems to establish air pressure differentials and thereby prevent the spread of smoke. These dampers are designed to operate with blades running horizontally. Dampers can be vertically or horizontally installed at, in accordance with NFPA-90A, or adjacent to the point where the duct passes thru the smoke barrier.

2. LOCATION OF DAMPER IN DUCTWORK

Place the damper assembly in its proper position relative to the barrier. The plane of the closed damper blades must be within 24 in. (610mm) of the rated smoke barrier and before any duct inlets or outlets.

3. ATTACHING DAMPER TO THE DUCT

The damper is flange mounted to the duct, sleeve, or wall opening with using #10 sheet metal screws, 1/4 in. (6mm) diameter bolts and nuts, tack or spot welds, or 3/16 in. (5mm) diameter steel pop rivets. Attachments must be made at each flange spaced a maximum of 6 in. (152mm) on centers and a maximum of 2 in. (51mm) from corners.

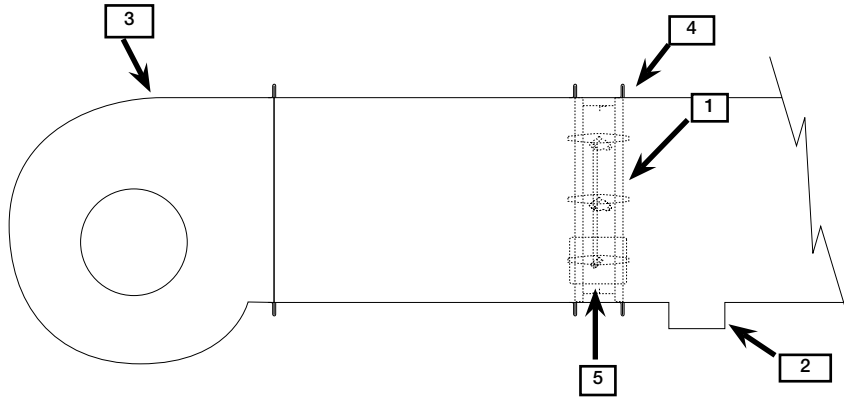
4. SEALING THE INSTALLATION

The following duct sealants may be used to seal between the dampers flange and the mating surface: PA2084T duct sealant adhesive manufactured by Precision, DP1010 water base duct sealant manufactured by Design Polymetrics, Grey Pookie or Ductmate PROseal® in accordance with SMACNA recommendations.

5. ACTUATOR CONNECTIONS

Electrical and/or pneumatic connections to damper actuators should be made in accordance with wiring and piping diagrams developed in compliance with applicable codes, ordinances and regulations.

Damper model	Maximum Single Section Size in. (mm)	Maximum Overall Size for Multiple Section Dampers in. (mm)
SMD-301, 302	32 x 50 (813 x 1270)	128 x 100 or 256 x 50 (3251 x 2540) or (6502 x 1270)
SMD-301M, 302M	32 x 50 (813 x 1270)	128 x 100 or 256 x 50 (3251 x 2540) or (6502 x 1270)
SMD-401	48 x 60 (1219 x 7315)	192 x 72, 48 x 288, or 384 x 36 (4877 x 1829, 1219 x 7315 or 9754 x 914)
SMD-401M	48 x 36 (1219 x 914)	144 x 36 (3658 x 914)



- | Item | Description |
|------|----------------------------------|
| 1. | Damper frame |
| 2. | Duct outlet |
| 3. | Fan (not limited to centrifugal) |
| 4. | #10 sheet metal screws |
| 5. | Actuator |
- The actuators are to be installed to function per system requirements and to be controlled by smoke detection devices.

FAN ISOLATION APPLICATION

For air handling equipment isolation, leakage rated dampers are designed to operate with blades running horizontally. Dampers can be installed in a vertical or horizontal position. Sealants and damper seal materials meet the requirements of NFPA90A for smoke developed rating (≤ 50) and flame spread index (≤ 25) as tested per UL723/ASTME84-91A/NFPA 255. Dampers can be attached to the fan system discharge or inlet without being 24 in. (610mm) of a smoke barrier when used as an air handling equipment isolation damper.

