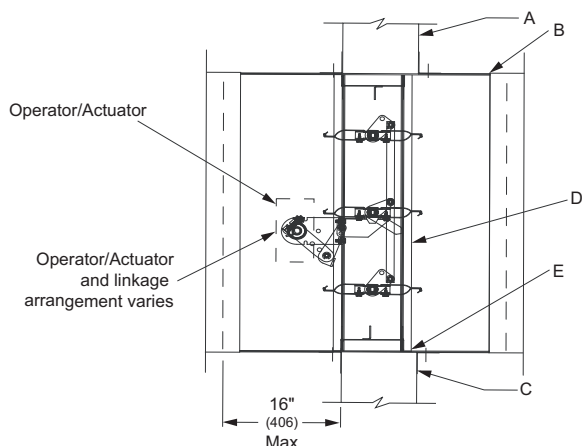
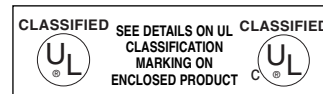


The following installation details apply to models **FSD-181-SS and FSD-182-SS**



All dimensions shown in () are in millimeters.
Illustration depicts damper installed vertical right side up. Damper may also be installed upside down.



Vertical Mount

- A.** Concrete or masonry fire partition shown. See Wood Stud and/or Steel Stud Framing for Fire Dampers In Drywall and/or Cavity Shaftwall Partitions Supplemental Installation Instructions for further vertical mount installation details. The opening shall be a minimum of ¼" (6) and a maximum of 6" (152) larger than the overall damper and sleeve assembly size. The mounting angles must be a minimum of 16 gauge (1.5) and must be tall enough to overlap the opening by a minimum of 1" (25). Damper must be installed with leading edge of closed blade within the partition.
 - B.** For rigid type duct connections, the sleeve shall be a minimum of 16 gauge (1.5) for dampers up to 36" wide by 24" high (914 x 610) and 14 gauge (1.9) for larger units. When lighter gauge sleeves are used, one or more of commonly used breakaway style connections are required. Refer to Sleeve Termination Supplemental Installation Instructions for further details. In no case will the sleeve gauge be less than the duct gauge to which it is connected. Damper sleeve shall not extend more than 16" (406) beyond the rated partition on the actuator side. The opposite side extension shall be a maximum of 6" (152) unless an access door is installed in the sleeve which then permits the extension to be a maximum of 16" (406).
 - C.** Mounting angles shall be a minimum of 1-½" x 1-½" x 16 gauge (38 x 38 x 1.5) and are required on both sides of the partition and must be attached to the sleeve only. Attachment to the sleeve shall be with a minimum of #10 (M5) stainless steel bolts, at 6" (152) o.c. maximum. There must be a minimum of two connections per side on all four sides. Refer to Sleeve Termination Supplemental Installation Instructions and Framing for Fire Dampers for further details. Ensure that the attachment device does not interfere with the operation of the damper and the free movement of the damper blades.
- Note:** If optional sealing between the mounting angle (or flange) leg and the surface of the partition, wall, or floor and/or between the mounting angle leg and the surface of the damper sleeve is required, any of the following sealants may be used: Dow Corning 700 or 732 or DOWSIL 732 or GE RTV 108 or SCS 1201 RTV. These sealants must be applied such that they do not intrude into the annular space between the outside surface of the damper sleeve and the opening of the partition, wall or floor into which the damper/sleeve is installed. The annular space between damper sleeve and wall opening must not be filled with firestop materials such as fill, void, or cavity materials.
- D.** When joining multiple sections or fastening the damper to the sleeve, the damper shall be fastened with ⅜" (4.8) diameter stainless steel rivets, Quick-Lock Joints, welds or #10 (M5) stainless steel bolts or sheet metal screws at 6" (152) o.c. maximum. There must be a minimum of two connections per side, top and bottom. For vertical installations exceeding one section high, a minimum 16 gauge x 5" wide (1.6 x 127) supplemental stainless steel mullion is required. The mullion must be the same length as the opening/duct width. The mullion must be installed between the damper frames running parallel to the opening/duct width located at the center of the assembly. Supplemental support mullions should be attached to the damper frames using any of the same fasteners indicated previously in this section.
 - E.** A continuous bead of Dow Corning 700 or 732 or DOWSIL 732 or GE RTV 108 or SCS 1201 RTV silicone rubber sealant shall be applied between the damper and the sleeve and between sections of a multiple damper assembly. Sealant is only required on one side of the damper.
 - F.** Fire/Leakage rated dampers and qualified operators are tested together by Underwriters Laboratories and are factory installed to qualify for standard damper/operator warranties. Damper operator/actuator must be tested prior to system start-up to ensure proper operation. Before applying power to the operator/actuator, the power must be verified.

DUCT SIZES	STAINLESS
	FSD-181-SS, 182-SS
Maximum Single Section	24" x 36" (610 x 914)
Maximum Multiple Section	96" x 72" (2439 x 1829)