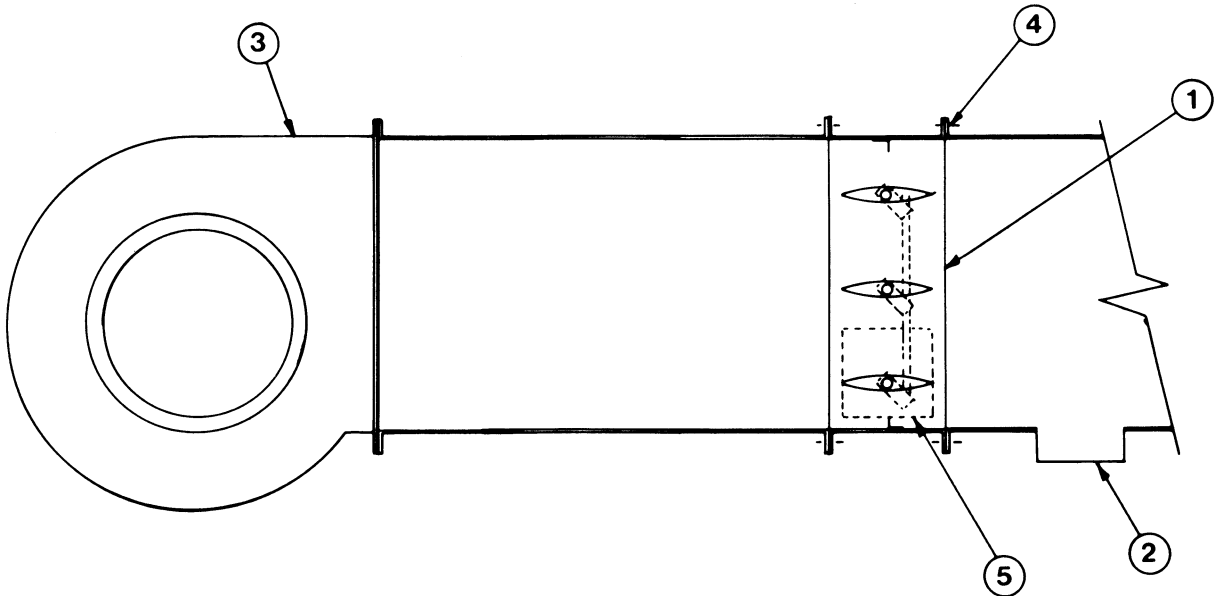


## INSTALLATION INSTRUCTIONS LEAKAGE RATED DAMPERS MODEL SD102



### SMOKE BARRIER APPLICATION

Leakage rated dampers are designed to operate with blades running horizontally. Dampers can be vertically or horizontally installed, in accordance with NFPA-90A, at or adjacent to the point where the duct passes through the smoke barrier. In no case shall the damper be installed more than 24" (610) from the smoke barrier or after the first duct or outlet.

### FAN ISOLATION APPLICATION

For air handling equipment isolation, leakage rated dampers are designed to operate with blades running horizontally. In accordance with the latest edition of NFPA-90A, dampers can be installed in a vertical or horizontal position and can be attached to the fan system discharge or inlet without being with 24" (610) of a smoke barrier when used as an air handling equipment isolation damper.

### GENERAL INSTALLATION

To ensure optimum operation and performance, the damper must be installed so it is square and free from racking. Ruskin recommends that each smoke damper be maintained, cycled and tested every six months and in accordance with the latest editions of NFPA90A, 92A, UL864, local codes and in accordance with actuator manufacturer's recommendations. Care should be exercised to ensure that tests are performed safely and do not cause system damage. The damper is flange mounted to the duct, sleeve, or wall opening with 3/8" (10) minimum diameter bolts. All fastenings must be spaced a maximum of 6" (152) apart, center to center, with a minimum of two fastenings per side. Dampers can be attached directly to fan, if required.

Note that SD102 dampers are not recommended for use in abrasive atmospheres. Consult your Ruskin representative for a listing of Ruskin models suited to abrasive environments.

**Note:** Dimensions shown in parentheses ( ) indicate millimeters.

ITEM	DESCRIPTION
1.	Damper Frame
2.	Duct Outlet
3.	Fan
4.	3/8" (10) minimum diameter Bolts
5.	Operator/Actuator

Electric and pneumatic actuators are to be connected in accordance with wiring and piping diagrams developed in compliance with applicable codes, ordinances and regulations. Multiple section or single section dampers utilizing more than one actuator require all actuators to be connected to a single (common) point for simultaneous operation (closure).



***RUSKIN***<sup>®</sup>

3900 Dr. Greaves Rd.  
Kansas City, MO 64030  
(816) 761-7476  
FAX (816) 765-8955  
[www.ruskin.com](http://www.ruskin.com)