

ARD25

AUTOMATIC ROUND DAMPER TWO POSITION, SPRING RETURN

APPLICATION

Ruskin model ARD25 is an automatic round control damper used for clean air circulation in heating, cooling and ventilation systems. The damper ships with a factory mounted and commissioned 24 VAC, spring return actuator set to power closed and spring or "fail" open. Actuator can be field converted to power open and spring or "fail" closed. The ARD25 is the perfect solution for ventilation, exhaust or combustion make-up air applications.

STANDARD CONSTRUCTION

FRAME

Galvanized steel spiral duct, crimped one end
24 Gauge - 4" (102) through 12" (305) in diameter
22 Gauge - 14" (356) through 18" (457) in diameter

BLADE

Galvanized steel
22 Gauge - 4" (102) through 12" (305) in diameter
20 Gauge - 14" (356) through 18" (457) in diameter

AXLE

1/2" (12.7) hex full length axle

BEARINGS

Molded synthetic sleeve type

BLADE SEALS

Closed cell neoprene foam

MAXIMUM STATIC PRESSURE

Suitable for systems up to 1" (.25 kPa) water column

LEAKAGE

Class 2 - 10 cfm/ft² @ 1" w.g. (3 cmm/m² @ .25 kPa)

TEMPERATURE RANGE

40° to 140° F. (5° to 60° C)

POWER REQUIREMENTS

24 VAC, 60 Hz

TORQUE

5" pounds (.56 Nm)

AVAILABLE SIZES

4", 5", 6", 8", 10", 12", 14", 16", 18"
(102, 127, 152, 203, 254, 305, 256, 406, 457)

Agency Listings

Leakage based on testing conducted in accordance with AMCA 500D test procedures - model is not AMCA certified
Actuator bears the CE mark

NOTES:

1. Units shown in parenthesis () are millimeters unless noted
2. Units furnished actual size ordered $\pm 1/16"$ (1.6)



CERTIFICATE NUMBER AJA07/11923

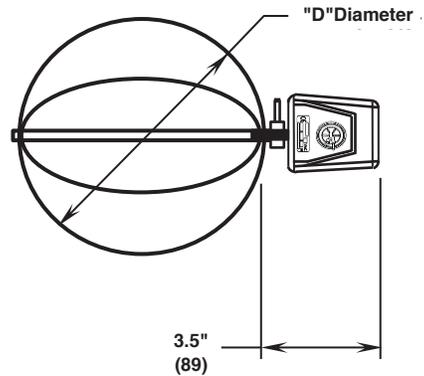
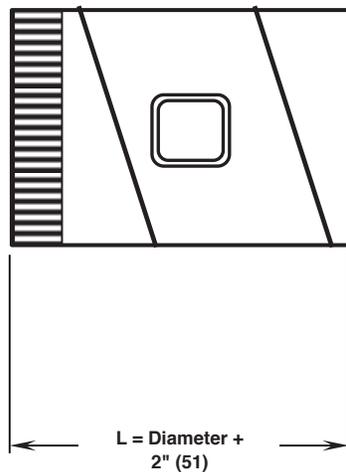
FEATURES

- Damper and actuator made in the USA
- 1/2" (12.7) Heavy Duty full length hex axle
- Factory installed and commissioned actuator
- Field adjustable damper position stop
- Field convertible damper fail position
- Male crimped end opposite female end for ease of installation on any rigid or flex round duct

VARIATIONS

- Ruskin model ARD25 is available with the following variations at additional cost
- Custom sizes and gauges (consult factory)

DIMENSIONAL DATA



SUGGESTED SPECIFICATION

Furnish and install, at locations shown on plans or as in accordance with schedules, automatic round control dampers built to the following minimum requirements. Frame shall be 24 gauge minimum G-90 galvanized steel with reinforcing ribs along each seam to provide structural integrity throughout the length of the damper. Blade shall be 22 gauge minimum thickness G-90 galvanized steel, and shall be mechanically attached to a $1/2"$ (12.7) hexagonal, full length aluminum axle, at a minimum of eight locations. Full length axle shall penetrate frame at both sides to facilitate field relocation of actuator, allowing opposite damper fail position. Damper shall fail in the open

position, upon loss of power, in the standard orientation. Full length axle shall turn on flanged synthetic sleeve bearings for smooth and quiet operation. Actuator shall be 24VAC, two-position, spring return, and shall include a field adjustable travel stop to limit the damper position to a desired set point position when energized. Actuator shall be factory supplied and commissioned to ensure proper operation. Damper assembly shall be suitable for system pressures up to $1"$ (.25 kPa) of static pressure. Damper seals shall perform to class 2 leakage standards, with 10 cfm/ft^2 at $1" \text{ w.g.}$ ($3 \text{ cmm/m}^2 @ .25 \text{ kPa}$) minimum. Damper shall be equivalent to Ruskin model ARD25.



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