

DS-3062

LIT-1921760

High Temperature Pneumatic Piston Damper Actuator

Description

The DS-3062 Pneumatic Actuator is a multipurpose positioning device used to accurately position small dampers in high temperature smoke applications (such as Johnson Controls SD -1300 Series) in response to output signals of a pneumatic controller or electro-pneumatic transducer.

The DS-3062 can be used with other dampers up to a maximum area of 4 square feet for proportional volume control and 6.25 square feet for two-position actuation provided that the torque requirements are compatible with the specific application

The DS-3062 is UL component recognized for use on UL Classified 555/555S smoke and combination fire/smoke dampers, which have been tested and approved to a degradation temperature of 350°F (176°C).

Features

- high power to size ratio for locations in confined spaces
- all-aluminum housing which is lightweight and non-combustible
- telescoping linkage for fast and flexible installation
- front or rear mounting options for flexible mounting configurations

Applications

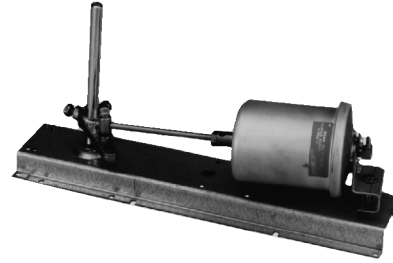
When used with proportional control, the damper size is limited to 4 square feet maximum.

As a 2-position control, damper size is limited to 6.25 square feet. As determined by testing using Johnson Controls D-1300 dampers, width and height are limited to 30 inches maximum.

The nominal spring range is 8 to 13 psi.

The control air pressure for normal HVAC operation is 0-20 psig. The minimum control pressure for safety damper ventilation mode is 20 psi with the maximum pressure of 30 psi. When used for both proportional and smoke applications, a separate air signal should be provided to override normal HVAC operations and enact safety damper functions.

Note: The DS-3062-1 is not able to be configured for frame mounting in normally open damper applications



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Repair Information

The actuator has a sealed body and field repairs cannot be made. If the DS-3062 Damper Actuator fails to operate within its specifications, replace the unit. For a replacement actuator, contact the nearest Johnson Controls® representative.

Selection Charts

DS-3062 High Temperature Pneumatic Piston Damper Actuator

Code Number	Nominal Spring Range, psig (kPa)
DS-3062-1	8-13 (56-91) with Universal Mounting Kit

Accessories for DS-3062 Actuator

Code Number	Description	Weight, lb (Kg)
DMPR-KC053	Crank Arm: 1/2 inch adjustable to 2-3/4 inch radius	0.5 (0.23)
DMPR-KC300	Swivel Ball Joint	0.5 (0.23)
D-3062-106	Rod - 1/4-20 threaded one end	0.5 (0.23)
D-3062-107	Push-Pull Ball Joint and Nut, 5 per bag	1.0 (0.45)
D-3073-604	Ball Joint - weather resistant	0.5 (0.23)

Technical Specifications

DS-3062 Pneumatic Actuators	
Stroke	2 inches (51 mm)
Control Air Pressure	0-20 psig for HVAC 20 psig (137 kPa) minimum for safety damper ventilation mode 30 psig (205 kPa) maximum
Air Connections	Compression fitting for 1/4 inch O.D. copper tubing
Ambient Operating Conditions (HVAC)	-20 to 150°F (-29 to 66°C)
Materials	Body - Aluminum, Diaphragm - Synthetic elastomer
Effective Diaphragm Area	6.6 in ² (43 cm ²)
Dimensions	3-3/16 in. diameter x 6-13/16 in. long
Shipping Weight, lb (Kg)	DS-3062-1- 5.2 (2.4) DS-3062-2 - 2.3 (1.0)
Agency Listing	UL Recognized component to 350°F (176°C) with compression fitting for copper tubing File No. R15581

Maximum Actuator Force¹ at 20 psig (140 kPa)

Nominal Spring Range, psig (kPa)	Stroke	Force, lb (Newton)	Torque Output at 90° Rotation
8 to 13 (56 to 91)	Power	46.2 (206)	46.2 in-lb (5.22 N-m)
	Return	52.8 (235)	52.8 in-lb (5.96 N-m)

1. Force calculated using 6.6 lb/psig available actuator force.