D-3153 Series Pneumatic Actuator

Description

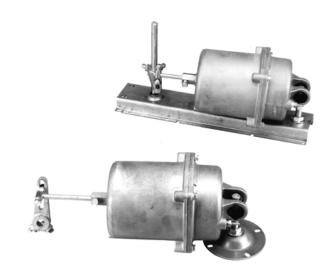
The D-3153 Pneumatic Actuator is a multipurpose positioning device used primarily for operating ventilating dampers in response to the output signals of a pneumatic controller or electro-pneumatic transducer.

The D-3153 Pneumatic Actuator is used with dampers up to a maximum area of 16 ft² (1.5 m²) for proportional volume control, and 25 ft² (2.3 m²) for 2-position actuation (provided that the torque requirements are compatible with the specific application).

Refer to the *D*-3153 *Pneumatic Actuator Product Bulletin* (*LIT-2681054P*) for important product application information.

Features

- all-aluminum housing creates a lightweight, non-combustible actuator
- telescoping linkage provides fast, flexible installation
- long life and reliable design places over a million actuators now in service
- · 2-way swivel head ensures full power delivery



D-3153 Pneumatic Actuator

Repair Information

Do not make field repairs. If the D-3153 Pneumatic Actuator fails to operate within its specifications, replace the unit. For a replacement D-3153 Actuator, contact the nearest Johnson Controls® representative.

Selection Charts

Nominal Spring Range, psig (kPa)	With Universal Mounting Bracket	With Auxiliary Mounting Bracket	Body Only
8 to 13 (56 to 91)	D-3153-2	D-3153-5	D-3153-6003
8 to 13 (56 to 91) with D-9502	D-3153-1	D-3153-4	-
0 to 3 (0 to 21) and 9 to 13 (63 to 91) with 2-stage Pilot	-	D-3153-18	-
5 to 10 (35 to 70)	D-3153-3	D-3153-6	D-3153-6002
3 to 7 (21 to 49)	-	D-3153-7	D-3153-6001
Accessories (Order Separately)			
Description		Shipping Weight, lb (kg)	Code Number
Rubber Boot Kit		0.2 (0.09)	D-3073-100
Ball Joint, weather resistant		0.3 (0.11)	D-3073-604
Blade Arm Kit		1.0 (0.45)	D-9999-100
Crank Arm, 1/2 in. adjustable to 2-3/4 in. radius		0.5 (0.23)	D-3153-101
Crank Arm, 3/8 in. adjustable to 2-3/4 in. radius		0.5 (0.23)	D-3153-108
Crank Arm, 7/16 in. adjustable to 2-3/4 in. radius		0.5 (0.23)	D-3153-109
Linkage Rod, 4 ft (122 cm)		2.0 (0.91)	D-3153-102
Linkage Rod, replacement		1.0 (0.45)	D-3153-103
Stop Screw Kit, 1/4 – 24 x 3 in.		0.5 (0.23)	D-3153-104
Proportional Pilot Positioner Kit ¹		2.0 (0.91)	D-9502-8
Ball Joint		0.5 (0.23)	D-9999-104
Pivot Post, 5 per kit		0.5 (0.23)	D-3153-110
E-rings for Pivot Post, 10 per kit		0.5 (0.23)	D-3153-111
Mounting Nuts for Pivot Post, 10 per kit		0.5 (0.23)	D-3153-112
Universal Mounting Bracket		3.5 (1.13)	D-3153-105
Auxiliary Mounting Bracket		1.0 (0.45)	D-3153-106
2-stage Positioner Kit ¹		2.0 (0.91)	D-9502-9

1. Positioner kit includes positioner, mounting plate, spring, and mounting hardware.

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. © 2015 Johnson Controls, Inc.

D-3153 Series Pneumatic Actuator (Continued)

Technical Specifications

D-3153 Pneumatic Actuators			
Stroke	3 in. (76 mm)		
Control Air Pressure	0-20 psig (0-138 kPa) for Heating, Ventilating, and Air Conditioning (HVAC) 20 psig (138 kPa) minimum for safety damper functions 30 psig (207 kPa) maximum without pilot		
Air Connections	1/8 in. NPT straight barbed fitting for 5/32 in. or 1/4 in. O.D. polytubing (furnished) compression fitting for 1/4 in. O.D. copper tubing (optional)		
Ambient Operating Conditions	-20 to 150°F (-29 to 66°C)		
Effective Diaphragm Area	15 in. ² (97 cm ²)		
Materials	Body: Die-cast Aluminum; Diaphragm: Synthetic elastomer		
Dimensions (H x W x D)	Refer to the D-3153 Pneumatic Actuator Product Bulletin (LIT-2681054P) Figure 2, Figure 3, and Figure 4.		
Shipping Weight, Ib (Kg)	D-3153-1 11.5 (5.2) D-3153-3 10.0 (4.5) D-3153-5 8.5 (3.9) D-3153-7 8.5 (3.9) D-3153-2 10.0 (4.5) D-3153-4 10.5 (4.8) D-3153-6 8.5 (3.9) D-3153-18 10.5 (4.8)		

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