

No. 6 Pneumatic Actuator



331-2792 and 331-3060 No. 6  
Pneumatic Actuator,  
pivot mounting type.



331-2856 No. 6  
Pneumatic Actuator and  
clevis for frame mounting.



331-3011 No. 6 Pneumatic Actuator,  
clevis, crank and rocker arm. Universal mounting for  
extended shaft or frame mounting.

Description

Designed with a 4-inch (102 mm) stroke, the No. 6 Pneumatic Actuator is a rugged, metal-fabricated device that provides gradual or positive actuation of HVAC and fire/smoke dampers.

Features

- Replaceable diaphragm
- Variety of spring ranges for sequencing with other control devices
- High torque

Options

- Positioning relay
- Forward travel stops

Applications

Recommended for multiple applications, the No. 6 Pneumatic Actuator is excellent for control of outdoor air, return air, mixed air, exhaust, face and bypass, fan discharge, multisection, static pressure control, fan inlet vanes and other special applications.

An actuator marked with an asterisk is recognized under UL's Damper Actuator category (EMKU2) for use on fire dampers and leakage-rated dampers.

B-55

Damper Actuators

Nominal Spring Rating	Max. Thrust lb. (N)				Torque Rating lb.-in (Nm)			
	Full Stroke Forward			Spring Return (No Stroke) 0 psi (0 kPa)	Gradual Operation	2-position Operation or with Positioner		
	15 psi (103 kPa)	18 psi (124 kPa)	25 psi (172 kPa)			15 psi (103 kPa)	18 psi (124 kPa)	25 psi (172 kPa)
3 to 8 psi (21 to 55 kPa)	125 (556)	179 (796)	304 (1352)	54 (240)	50 (5.6)	75 (8.5)	75 (8.5)	75 (8.5)
3 to 13 psi (21 to 90 kPa)	36 (160)	89 (396)	214 (952)	54 (240)	50 (5.6)	75 (8.5)	75 (8.5)	75 (8.5)
8 to 13 psi (55 to 90 kPa)	36 (160)	89 (396)	214 (952)	144 (640)	50 (5.6)	202 (22.8)	202 (22.8)	202 (22.8)


**Table Notes:**  
With maximum hysteresis of 2.5 psi (17.2 kPa) @ 90° rotation.

# Specifications

Effective Diaphragm Area .....	17.9 in. <sup>2</sup> (115 cm <sup>2</sup> )
Stroke .....	4-in. (102 mm)
Max. Air Pressure .....	30 psi (207 kPa)
Nominal Spring Ranges .....	3 to 8 psi (21 to 55 kPa) 3 to 13 psi (21 to 90 kPa) 8 to 13 psi (55 to 90 kPa)
Temperature Range .....	
Operating.....	-20° to 200°F (-29° to 93°C)
Storage.....	-20° to 200°F (-29° to 93°C)

<b>Materials</b>	
Housing .....	Aluminum
Stem .....	Type 416 Stainless Steel
Diaphragm.....	Silicone Rubber
Spring.....	Steel
Bearing.....	Bronze Oilite
<b>Air Connection</b> .....	1/8" NPT Female
<b>Type of Mounting</b> .....	Pivot; Universal (extended shaft or frame mount)
<b>Shipping Weight (Actuator only)</b> .....	9.0 lb. (4.08 kg)

# Product Ordering

No. 6 Actuator Description <sup>3</sup>	Mounting Style	No. 6 Actuator Part Number		
		Nominal Spring Range		
		3-8 psi (21-55 kPa)	3-13 psi (21-90 kPa)	8-13 psi (55-90 kPa)
Actuator, Basic, Integral Pivot	Pivot	331-2793 <sup>1</sup>	331-2794 <sup>1</sup>	331-3060 <sup>1</sup>
Actuator, Integral Pivot and Forward Travel Stops	Pivot	—	—	331-2988
Actuator with Clevis	Pivot	331-2857	331-2858	331-2856
Actuator with Clevis and Positioning Relay	Pivot	—	—	332-2856
Actuator, Integral Pivot with pivot post. Mounted on plate for Extended Shaft <sup>2</sup> mounting with Clevis and Crank for 3/8" (10 mm), 7/16" (11 mm) or 1/2" (13 mm) diameter shaft.	Extended Shaft <sup>2</sup>	331-3012	331-3013	331-3011
Actuator, Integral Pivot with pivot post. Mounted on plate for Extended Shaft <sup>2</sup> mounting with Clevis and Crank for 3/8" (10 mm), 7/16" (11 mm) or 1/2" (13 mm) diameter shaft.	Extended Shaft Kit <sup>2</sup> with Positioning Relay	—	—	332-3011
If the actuator is inoperative, replace the entire actuator.				
 The No. 6 damper actuator part numbers noted above all utilize pneumatic damper actuators that are UL Recognized Components for fire/smoke applications under UL's Damper Actuator category EMKU2, referencing standards UL555 and UL555S. This category covers pneumatic damper actuators used in fire dampers and leakage rated dampers for smoke control.				

## Ordering Notes:

- <sup>1</sup> These No. 6 pneumatic basic damper actuator devices are UL component recognized. These same basic damper actuator devices are used in all of the actuator assemblies following the base model in each column.
- <sup>2</sup> When the actuator is ordered with universal mounting, the mounting plate, pivot post and hardware, clevis, damper crank, rocker arm, and all screws/nuts are included. Order other frame mounting accessories as required if not supplied by damper manufacturer.
- <sup>3</sup> Siemens No. 6 Pneumatic Damper Actuator contains a replaceable diaphragm with silicone rubber. See Siemens document #129-089 for replacement instruction for this diaphragm.