# **SIEMENS**

## **Submittal Sheet**

Document No. 154-035 November 11, 2021

## **Pneumatic Damper Actuators**

## **Description**

The No. 3 Damper Actuators are rolling diaphragm actuators that provide modulating or two-position control. The No. 4 Damper Actuators are rolling diaphragm actuators that are suitable in applications requiring a medium effective diaphragm area and long stroke. The No. 6 Damper Actuators are heavy-duty rolling diaphragm actuators that are suitable in applications requiring a large, effective diaphragm area and long stroke.

#### **Features**

- All metal body construction
- Variety of spring ranges for sequencing
- Pivot mounting for extended shaft
- Positioning relay (optional)

## **Product Numbers**

65	Stroke			Des	scription			Mounting Style				Nominal Spring Range		
		Actuator	Clevis	Bracket	Ball Joint Connector	Pivot	Positioning Relay	Front	Fixed	Pivot	Extended Shaft	3-7 psi (21-48 kPa)	5-10 psi (35-69 kPa)	8-13 psi (55-90 kPa)
		•						•				331-4310	331-4510	331-4810
	2-3/8	•		•					•			331-4313	331-4513	331-4813
ō	in. (60 mm)	•	•	•					•			331-4314	331-4514	331-4814
Actuator		•		•	•				•			_	331-4531	331-4831
둦		•		•	•		•		•			332-4331	332-4531	332-4831
¥		•				•				•		331-4312	331-4512	331-4812
ē		•				•					• <sup>3</sup>	331-4311	331-4511	331-4811
Damper		•				•	•				• <sup>3</sup>	_	_	332-4811
Da	2-3/4											_	_	331-4826 <sup>1</sup>
ო.								•						331-4827 <sup>1</sup>
ó	in. (70	•	•					•				_		331-4824 <sup>1</sup>
	mm)	•	•			•				•		_	331-4551 <sup>1</sup>	331-4841 <sup>1</sup>
		•	•			•					•			331-4821 <sup>1</sup>

		Description							ng s	Style	Nominal Spring Range					
	Actuator Clevis Bracket Ball Joint Connector Pivot Postitioning Relay		Positioning Relay	Front	Fixed	Pivot	Extended Shaft	3-7 psi (21-48 kPa)	3-13 psi (21-90 kPa)	5-10 psi (35-69 kPa)	8-13 psi (55-90 kPa)	2-3, 8-13 psi (14-21, 55-90 kPa) Hesitation Model				
	•						•				331-2910	_	331-2917	331-2963	_	
_	•		•					•			_	_	_	_	331-2974 (2-3/8 in. stroke)	
mper tor	•			•				•			_	331-3018	_	331-3017	_	
. 4 Damp Actuator	•				•				•		331-2904 <sup>1</sup>	331-2905 <sup>1</sup>	331-2906 <sup>1</sup>	331-2961 <sup>1</sup>	331-2909	
Dai	•	•			•				•		331-2929	331-2930	331-2931	331-2968	_	
). 4 Act	•				•					• 3	331-3000	331-3001	331-3002	331-2973 <sup>1</sup>	_	
No.	•				•	•				• 3	_	_	_	332-2973	_	
	OEM specials						OEM specials			cials	_	_	331-2976 <sup>1</sup>	331-2998 <sup>1</sup>	_	

<sup>1</sup> UL Recognized Components under UL's Damper Actuator category (EMKU2), which covers pneumatic damper actuators intended to be employed on fire dampers and leakage rated dampers.

Available upon request.

<sup>3</sup> Mounted on plate for extended shaft with clevis and crank for 3/8-inch (10-mm), 7/16-inch (11-mm), or 1/2-inch (13-mm) diameter shaft.

			Des	scription			Mou	ınting Style	Nominal Spring Range			
	Actuator	Clevis		Ball Joint Connector		Positioning Relay	Pivot	Extended Shaft	3-8 psi (21-55 kPa)	5-10 psi (35-69 kPa)	8-13 psi (55-90 kPa)	
	•				•		•		331-2793	331-2794	_	
<u>~</u>	•				•		•		_	_	331-2988 (with Travel stops)	
mper tor	•	•					• <sup>2</sup>		331-2857	331-2858	331-2856 <sup>1</sup>	
Dar	•	•				•	• <sup>2</sup>		_	_	332-2856	
ပ္ ပ	•				•			• 3	331-3012	331-3013	331-3011 <sup>1</sup>	
o S A	•				•	•		• 3	_	_	332-3011	
	•						•		_	_	331-3060 <sup>1</sup> (Extended Temp)	

- 1 UL Recognized Components under UL's Damper Actuator category (EMKU2), which covers pneumatic damper actuators intended to be employed on fire dampers and leakage rated dampers.
- 2 When the actuator is ordered with universal mounting, the mounting plate, pivot post and hardware, clevis, damper crank, and all screws/nuts are included. Order other frame mounting accessories as required if not supplied by damper manufacturer.
- 3 Mounted on plate for extended shaft with clevis and crank for 3/8-inch (10-mm), 7/16-inch (11-mm), or 1/2-inch (13-mm) diameter shaft. Parts for frame mounting (blade drive) included with kit.

### **Technical Data**

Specif	ication	No. 3 Damper Actuator	No. 4 Damper Actuator	No. 6 Damper Actuator		
Effective diapl	nragm area	8 inches <sup>2</sup> (51.6 cm <sup>2</sup> )	11 inches <sup>2</sup> (71 cm <sup>2</sup> )	17.9 inches <sup>2</sup> (115 cm <sup>2</sup> )		
Stroke		2-3/8 inches (60 mm) or 2-3/4 inches (70 mm)	4 inches (102 mm) Hesitation Model: 3 inches (76 mm)	4 inches (102 mm)		
Housing		Aluminum	Steel with cathodic epoxy electrocoat	Aluminum		
Stem		Plated steel	Stainless steel	Stainless steel		
Diaphragm		Ozone-resistant rubber	Ozone-resistant rubber	Ozone-resistant rubber		
Maximum air p	ressure	30 psig (207 kPa)	30 psig (207 kPa)	30 psig (207 kPa)		
Ambient	Storage	-20 to 140°F (-29 to 60°C)	-20 to 140°F (-29 to 60°C)	-20 to 160°F (-29 to 71°C)		
temperature	Operating	35 to 140°F (2 to 60°C)	35 to 140°F (2 to 60°C)	-20 to 160°F (-29 to 71°C)		
Air connection	1	1/8-inch NPT female for straight barb fitting for 1/4-inch O.D. plastic tubing or copper tube	1/8-inch NPT female for straight barb fitting for 1/4-inch O.D. plastic tubing	1/8-inch NPT		
Shipping weig	ht	1.3 lbs. (0.58 kg)	3.66 lbs. (1.66 kg)	9.0 lbs. (4.08 kg)		
Dimensions in inches (millimens		3-15/16 (100) dia., 6 (152) L	4-5/8 (118) dia., 9-15/16 (250) L	7-1/8 (181) dia., 14 (356) L		

## **Typical Specifications**

Automatic pneumatic control damper actuator shall have an ozone resistant, EP rubber rolling diaphragm. Air shall enter the piston chamber through a 1/8-27 NPT threaded port with a barb fitting for connecting 1/4-inch O.D. poly tubing or 1/4-inch O.D. copper tube. Output shaft shall have a 3/8 inch-24 thread to allow for linkage assembly. Damper actuator shall be available in various spring ranges to accommodate sequencing dampers. Damper actuators shall pivot mount to prevent damage to linkage. A relay shall be able to be mounted to the actuator for accurate stem positioning as an option. Limit stops shall be available as an option.

Information in this publication is based on current specifications. The company reserves the right to make changes in specifications and models as design improvements are introduced. Product or company names mentioned herein may be the trademarks of their respective owners. © 2017-2021 Siemens Industry, Inc.