SIEMENS

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

	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)
		٠						٠				331-4310	331-4510	331-4810
	2-3/8 in. (60 mm)	•		٠					٠			331-4313	331-4513	331-4813
ъ		•	٠	٠					٠			331-4314	331-4514	331-4814
Actuator		•		٠	٠				٠				331-4531	331-4831
зtu		•		٠	٠		•		٠			332-4331	332-4531	332-4831
Ac		•				•				•		331-4312	331-4512	331-4812
er		•				٠					• ³	331-4311	331-4511	331-4811
Damper		•				٠	•				• ³		_	332-4811
Da	2-3/4 in. (70	•										—	_	331-4826 ¹
3		•						•				—		331-4827 ¹
No.		•	٠					٠						331-4824 ¹
_	mm)	•	٠			٠				٠			331-4551 ¹	331-4841 ¹
		•	٠			٠					•	_	_	331-4821 ¹

		I	Des	criptic	n		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)	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
or	•						٠				331-2910	—	331-2917	331-2963	—
uator	٠		•					•				—	—	—	331-2974 (2-3/8 in. stroke)
Actu	٠			•				•				331-3018	—	331-3017	
	٠				٠				٠		331-2904 ¹	331-2905 ¹	331-2906 ¹	331-2961 ¹	331-2909
mper	٠				٠	•			٠		_	—		332-2961 ¹	_
Ē	٠	٠			٠				•		331-2929	331-2930	331-2931	331-2968	
Dai	•				٠					• 3	331-3000	331-3001	331-3002	331-2973 ¹	_
4	٠				٠	٠				• 3	_	_	_	332-2973	_
No.	OEM specials						OE	OEM specials			_	_	331-2976 ¹	331-2998 ¹	_

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 Available upon request.

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.

				scription			Μοι	Inting Style	Nominal Spring Range			
	Actuator	Clevis	Bracket	Ball Joint Connector	Pivot	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	—	
5	•				٠		٠		_		331-2988 (with Travel stops)	
mper tor	٠	٠					• ²		331-2857	331-2858	331-2856 ¹	
6 Damp ctuator	•	٠				•	• ²		_	—	332-2856	
. 6 Act	٠				٠			• ³	331-3012	331-3013	331-3011 ¹	
No.	•				٠	•		• ³	_	—	332-3011	
	٠						٠		—	—	331-3060 ¹ (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 diap	hragm area	8 inches ² (51.6 cm ²)	11 inches ² (71 cm ²)	17.9 inches ² (115 cm ²)		
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 j	oressure	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		1/8-inch NPT internal thread for straight barb fitting for 1/4-inch O.D. plastic tubing or copper tube	1/8-inch NPT internal thread for straight barb fitting for 1/4-inch O.D. plastic tubing	1/8-inch NPT		
Shipping weig	lht	1.3 lbs. (0.58 kg)	3.66 lbs. (1.66 kg)	9.0 lbs. (4.08 kg)		
Dimensions ir inches (millim	-	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.

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