

# SIEMENS

Ingenuity for life



## OpenAir™ Electronic Damper Actuators

More torque, greater energy efficiency, and long-lasting reliability gives you an ideal solution for all your HVAC equipment needs.

[usa.siemens.com/openair](http://usa.siemens.com/openair)

# The right damper actuator for any HVAC application

A range that meets all your needs. Energy-efficient, simple, flexible and reliable: your benefits are at the heart of the entire damper actuator range, from smooth installation and rapid commissioning to operation that is both efficient and convenient. Save time and costs with OpenAir™



## SPRING RETURN DAMPER ACTUATORS

A full range of spring return actuators, from 20 lb.-in. to 160 lb.-in., make OpenAir Damper Actuators the ideal OEM choice for economizer damper, roof top unit and air handling unit control. The 35 lb.-in. GPC Series actuator provides long lasting economizer control in a small footprint.



## NON-SPRING RETURN DAMPER ACTUATORS

Achieve optimum VAV box control and greater energy efficiency. The GDE, GLB and GSD Damper Actuators feature the lowest power consumption on the market and the longest life cycle rating of 100,000 full stroke cycles and 5 million repositions.



## FAST-ACTING DAMPER ACTUATORS








The GAP and GNP are 50 lb.-in. fail-safe and fail-in-place damper actuators that are used in critical control environments such as lab and fume hood conditions. These fast-acting damper actuators operate with a runtime of 2 seconds, provide a wide variety of control signals with 24 VAC/DC operation and have plenum rated cabling.



## FIRE AND SMOKE DAMPER ACTUATORS

All Siemens fire/smoke actuators meet the UL555S standard. The damper manufacturers carry the UL555S listings with their assemblies (damper plus actuator). These actuators provide 15-second open/closed operation and 30-second motor drive operation at rated torque, temperature and voltage. Both actuators are integrated with Siemens electronic fusible link with four temperature ratings: 165°F, 212°F, 250°F and 350°F.

Actuators for HVAC Applications		Control Signal	Operating Voltage	Standard Model	Pre-Cabled Terminal Strip (T); Extended 6 ft. Cable (Q)	Potentiometer (1 kOhm)	Adjustable Start Span	Adj. Start / Span + Two Auxiliary Switches	Two auxiliary switches	Bulk Pack Available	Dimensions, Damper Shaft Round / Square (inch)
<b>Spring Return Damper Actuators</b>											
	<b>GQD Series</b> 20 lb-in (2 Nm) 30 s Runtime 15 s Spring Return	<b>On/Off</b> 2-Position	24 VAC/DC	GQD121.1P	—	—	—	—	GQD126.1P	GQD121.1P/B	R: 3/8" ... 1/2" Sq: 1/4" ... 7/16"
			120 VAC	GQD221.1U	—	—	—	—	GQD226.1U	GQD221.1U/B	
		<b>Floating</b> 3-Position	24 AC/DC	GQD131.1P	—	—	—	—	GQD136.1P	GQD131.1P/B	
		<b>Modulating</b> 0(2)-10 VDC / 10 - 0(2) DC	24 VAC/DC	GQD151.1P	—	—	—	—	GQD156.1P	GQD151.1P	
	<b>GPC Series</b> 35 lb-in (4 Nm) 60 s Runtime 15 s Spring Return	<b>On/Off</b> 2-Position	24 VAC/DC	GPC121.1P	—	—	—	—	GPC126.1P	—	R: 3/8" ... 1/2" Sq: 1/4" ... 7/16"
			100 to 240 VAC	GPC321.1U	—	—	—	—	GPC326.1P	—	
		<b>Floating</b> 3-Position	24 VAC/DC	GPC131.1P	—	—	—	—	GPC136.1P	—	
		<b>Modulating</b> 0(2)-10 VDC / 10 - 0(2) VDC	24 VAC/DC	GPC161.1P	—	—	—	—	GPC166.1P	—	
	<b>GMA Series</b> 62 lb-in (7 Nm) 90 s Runtime 15 s Spring Return	<b>On/Off</b> 2-Position	24 VAC/DC	GMA121.1U	—	—	—	—	GMA126.1U	—	R: 1/4" ... 3/4" Sq: 1/4" ... 1/2"
				GMA121.1P	—	—	—	—	GMA126.1P	GMA121.1P/B	
		<b>Floating</b> 3-Position	120 VAC	GMA221.1U	—	—	—	—	GMA226.1U	—	
			24 VAC/DC	GMA131.1U	—	GMA132.1U	—	—	GMA136.1U	—	
		<b>Modulating</b> 2 - 10 VDC	24 VAC/DC	GMA151.1U	—	—	—	—	GMA156.1U	—	
				GMA151.1P	—	—	—	—	GMA156.1P	—	
<b>Modulating</b> 0 - 10 VDC	24 VAC/DC	GMA161.1U	—	—	GMA163.1U	—	GMA166.1U	—			
		GMA161.1P	—	—	GMA163.1P	—	GMA166.1P	—			
	<b>GCA Series</b> 160 lb-in (18 Nm) 90 s Runtime 15 s Spring Return	<b>On/Off</b> 2-Position	24 VAC/DC	GCA121.1U	—	—	—	—	GCA126.1U	—	R: 3-8" ... 1" Sq: 1/4" ... 3/4"
				GCA121.1P	—	—	—	—	GCA126.1P	—	
		<b>Floating</b> 3-Position	120 VAC	GCA221.1U	—	—	—	—	GCA226.1U	—	
				24 VAC/DC	GCA131.1U	—	GCA132.1U	—	—	GCA136.1U	
		<b>Modulating</b> 0(2) - 10 VDC	24 VAC/DC	GCA151.1U	—	—	—	—	GCA156.1U	—	
				GCA151.1P	—	—	—	—	GCA156.1P	—	
<b>Modulating</b> 0 - 10 VDC	24 VAC/DC	GCA161.1U	—	—	GCA163.1U	GCA164.1U	GCA166.1U	—			
		GCA161.1P	—	—	GCA163.1P	GCA164.1P	GCA166.1P	—			
<b>Non-Spring Return Damper Actuators</b>											
	<b>GSD Series</b> 20 lb-in (2 Nm) 30 s Runtime	<b>On/Off &amp; Floating</b> 2-Position & 3-Position	24 VAC/DC	GSD141.1P	—	—	—	—	GSD146.1P	—	R: 3/8" ... 1/2" Sq: 1/4" ... 7/16"
			100 to 240 VAC	GSD341.1U	—	—	—	—	GSD346.1U	—	
		<b>Modulating</b> 0(2) - 10 VDC	24 VAC/DC	GSD161.1P	—	—	—	—	GSD166.1P	—	
	<b>GDE Series</b> 44 lb-in (5 Nm) 90 s Runtime	<b>On/Off &amp; Floating</b> 2-Position & 3-Position	24 VAC	GDE141.1U	GDE141.1Q	—	—	—	—	GDE141.1U/B	R: 3/8" ... 5/8" Sq: 1/4" ... 1/2"
				GDE141.1P	—	GDE142.1P	—	—	—	GDE146.1P	
		<b>Floating</b> 3-Position	100 to 240 VAC	GDE341.1U	—	—	—	—	GDE346.1U	—	
				24 VAC	GDE131.1U	—	—	—	—	GDE131.1U/B	
		<b>Modulating</b> 0(2) - 10 VDC	24 VAC/DC	GDE161.1P	GDE161.1Q	—	GDE163.1P	GDE164.1P	GDE166.1P	GDE161.1P/B	
	<b>GLB Series</b> 88 lb-in (10 Nm) 150 s Runtime	<b>On/Off &amp; Floating</b> 2-Position & 3-Position	24 VAC/DC	GLB141.1P	GLB141.1Q	—	—	—	GLB146.1P	—	R: 3/8" ... 5/8" Sq: 1/4" ... 1/2"
			100 to 240 VAC	GLB341.1U	—	—	—	—	GLB346.1U	—	
		<b>Modulating</b> 0(2) - 10 VDC	24 VAC/DC	GLB161.1P	GLB161.1Q	—	—	—	GLB166.1P	—	
	<b>GEB Series</b> 132 lb-in (15 Nm) 125 s Runtime	<b>Floating</b> 3-Position	24 VAC	GEB131.1U	—	GEB132.1U	—	—	GEB136.1U	—	R: 1/4" ... 3/4" Sq: 1/4" ... 1/2"
				GEB131.1P	—	—	—	—	—	—	
		<b>Modulating</b> 0(2) - 10 VDC	24 VAC	GEB161.1U	—	—	—	GEB164.1U	—	—	
				GEB161.1P	—	—	—	—	—	—	
	<b>GBB Series</b> 221 lb-in (25 Nm) 125 s Runtime	<b>Modulating</b> 0(2) - 10 VDC	24 VAC	GBB161.1U	—	—	GBB163.1U	GBB164.1U	GBB166.1U	—	R: 3/8" ... 1" Sq: 1/4" ... 5/8"
				GBB161.1P	—	—	GBB163.1P	GBB164.1P	GBB166.1P	—	
	<b>GIB Series</b> 310 lb-in (35 Nm) 125 s Runtime	<b>Modulating</b> 0(2) - 10 VDC	24 VAC	GIB161.1U	—	—	GIB163.1U	GIB164.1U	GIB166.1U	—	R: 3/8" ... 1" Sq: 1/4" ... 5/8"
				GIB161.1P	—	—	GIB163.1P	GIB164.1P	GIB166.1P	—	

Actuators for HVAC Applications	Control Signal	Operating Voltage	Standard Model	Pre-Cabled Terminal Strip (T); Extended 6 ft. Cable (Q)	Potentiometer (1 kOhm)	Adjustable Start Span	Adj. Start / Span + Two Auxiliary Switches	Two auxiliary switches	Bulk Pack Available	Dimensions, Damper Shaft Round / Square (inch)	
<b>Fast-Acting Damper Actuators</b>											
	GNP Series Fail-Safe 53 lb-in (6 Nm) 2 s Runtime 2 s Spring Return	On/Off 2-Position	24 VAC/DC	GNP191.1P	—	—	—	—	GNP196.1P	—	R: 1/4" ... 3/4" Sq: 1/4" ... 1/2"
		Floating 3-Position									
		Modulating 0 (2) - 10 VDC 4 to 20 mA									
	GAP Series Fail-In-Place 53 lb-in (6 Nm) 2 s Runtime	On/Off 2-Position	24 VAC/DC	GAP191.1P	—	—	—	—	GAP196.1P	—	R: 1/4" ... 3/4" Sq: 1/4" ... 1/2"
		Floating 3-Position									
		Modulating 0 (2) - 10 VDC 4 to 20 mA									
<b>Fire and Smoke Damper Actuators</b>											
	GJD Series 20 lb-in (2 Nm) 30 s Runtime <=15 s Spring Return	On/Off 2-Position	24 VAC/DC	GJD121.1U	—	—	—	—	GJD126.1U	—	R: 1/2"
			120 VAC	GJD221.1U	—	—	—	—	GJD226.1U	—	
			230 VAC	GJD321.1U	—	—	—	—	GJD326.1U	—	
	GRD Series 30 lb-in (3.4 Nm) 30 s Runtime <=15 s Spring Return	On/Off 2-Position	24 VAC/DC	GRD121.1U	—	—	—	—	GRD126.1U	—	R: 1/2"
			120 VAC	GRD221.1U	—	—	—	—	GRD226.1U	—	
			230 VAC	GRD321.1U	—	—	—	—	GRD326.1U	—	
	GKD Series 80 lb-in (9 Nm) 30 s Runtime <=15 s Spring Return	On/Off 2-Position	24 VAC/DC	GKD121.1U	—	—	—	—	GKD126.1U	—	R: 1/2"
			120 VAC	GKD221.1U	—	—	—	—	GKD226.1U	—	
			230 VAC	GKD321.1U	—	—	—	—	GKD326.1U	—	
	GVD Series 200 lb-in (23 Nm) 30 s Runtime <=15 s Spring Return	On/Off 2-Position	24 VAC/DC	GVD121.1U	—	—	—	—	GVD126.1U	—	R: 1/2"
			120 VAC	GVD221.1U	—	—	—	—	GVD226.1U	—	
			230 VAC	GVD321.1U	—	—	—	—	GVD326.1U	—	
<b>Fire and Smoke Damper Accessories</b>											
	Electronic Fusible Link (EFL)	165 °F Temperature Limit	ASK791.165								
		212 °F Temperature Limit	ASK791.212								
		250 °F Temperature Limit	ASK791.250								
		350 °F Temperature Limit	ASK791.350								

## OpenAir global leadership in electronic damper actuators



**40+ Years**  
Innovating control actuators



**1.5+ Million**  
OpenAir reposition operations for longer life



**60+ Thousand**  
Full strokes at rated torque and temperature



**100%**  
Factory tested



**25%**  
Lower power consumption



**20%**  
More torque than the competition

## SELECTION GUIDE

Square footage is approximate, based on 4 lb-in/ ft<sup>2</sup>

Application	Electronic																		Pneumatic*		
	Spring Return											Non-Spring Return							Spring Return		
	GQD 5ft <sup>2</sup>	GJD 5ft <sup>2</sup>	GRD 8ft <sup>2</sup>	GPC 9ft <sup>2</sup>	GNP 12ft <sup>2</sup>	GND 12ft <sup>2</sup>	GMA 16ft <sup>2</sup>	GKD 20ft <sup>2</sup>	GGD 36ft <sup>2</sup>	GCA 40ft <sup>2</sup>	GVD 50ft <sup>2</sup>	GSD 5ft <sup>2</sup>	GDE 11ft <sup>2</sup>	GAP 12ft <sup>2</sup>	GLB 22ft <sup>2</sup>	GEB 32ft <sup>2</sup>	GBB 55ft <sup>2</sup>	GIB 77ft <sup>2</sup>	No. 3 12ft <sup>2</sup>	No. 4 16ft <sup>2</sup>	No. 6 24ft <sup>2</sup>
Terminal Units	•			•			•					•	•		•				•		
Face and Bypass													•		•					•	
Multi-Zone Mixing Boxes									•				•		•		•				
Bypass Dampers													•		•						
Makeup Air Damper													•		•						
Outside Air Dampers	•			•			•		•			•				•	•	•			
Small Rooftop Units (RTU)	•			•			•					•				•					
Rooftop Units (RTU)									•								•	•	•		
Zone Isolation Dampers	•			•			•		•			•				•	•	•			
Vortex Dampers									•								•	•			
Inlet Vane Dampers									•								•	•			•
Return Air Dampers	•			•			•		•			•				•	•	•			
Unit Ventilators	•			•			•					•									
Central VAV Fans									•												•**
Fire/Smoke Dampers		•	•				•		•	•		•								•***	•***
Fume Hoods/Supply and Exhaust Dampers					•									•							

\* Estimates for pneumatic actuators are based on the maximum stroke of the actuator and the 90° damper rotation

\*\* LC Model

\*\*\* See data sheets for specific types

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