

Electronic
Damper Actuators

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

usa.siemens.com/damperactuators

SIEMENS

The right damper actuator
for any HVAC application

A range that meets all of 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 our damper actuators.



Spring Return Damper Actuators

A full range of spring return actuators, from 20 lb.-in. to 160 lb.-in., make Siemens 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

The Siemens Intelligent VAV actuator incorporates a pressure sensor and VAV logic all into one device. The Climatix mobile app transforms the commissioning process, making it so intuitive that any level technician can take full ownership of the job. With BACnet open communication, the Intelligent VAV is compatible with almost any open platform.

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 53 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 two 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 are UL 555S certified. The damper manufacturers carry the UL 555S certifications 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 a Siemens electronic fusible link with four temperature ratings: 165°F, 212°F, 250°F and 350°F.

Siemens offers a 5-year warranty on valves, actuators, damper actuators, sensors, and thermostats.

Actuators for HVAC Applications		Control Signal	Operating Voltage	Standard Model	Pre-Cabled Terminal Strip (T); Extended 6 ft. Cable (Q)	Potentio-meter (1 kOhm)	Adjustable Start Span	Adj. Start / Span + Two Auxiliary Switches	Two auxillary switches	Bulk Pack Available	Dimensions, Damper Shaft Round / Square (inch)
Spring Return Damper Actuators											
	**GQD Series** 20 lb-in (2 Nm) 30 s Runtime 15 s Spring Return	**On/Off** 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	
		Floating 3-Position	24 AC/DC	GQD131.1P	—	—	—	—	GQD136.1P	GQD131.1P/B	
		Modulating 0(2)-10 VDC / 10 - 0(2) DC	24 VAC/DC	GQD151.1P	—	—	—	—	GQD156.1P	GQD151.1P	
	**GPC Series** 35 lb-in (4 Nm) 60 s Runtime 15 s Spring Return	**On/Off** 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	—	
		Floating 3-Position	24 VAC/DC	GPC131.1P	—	—	—	—	GPC136.1P	—	
		Modulating 0(2)-10 VDC / 10 - 0(2) VDC	24 VAC/DC	GPC161.1P	—	—	—	—	GPC166.1P	—	
	**GMA Series** 62 lb-in (7 Nm) 90 s Runtime 15 s Spring Return	**On/Off** 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	
		Floating 3-Position	120 VAC	GMA221.1U	—	—	—	—	GMA226.1U	—	
			24 VAC/DC	GMA131.1U	—	GMA132.1U	—	—	GMA136.1U	—	
				GMA131.1P	—	—	—	—	—	—	
		Modulating 2 - 10 VDC	24 VAC/DC	GMA151.1U	—	—	—	—	GMA156.1U	—	
				GMA151.1P	—	—	—	—	GMA156.1P	—	
		Modulating 0 - 10 VDC	24 VAC/DC	GMA161.1U	—	—	GMA163.1U	—	GMA166.1U	—	
				GMA161.1P	—	—	GMA163.1P	—	GMA166.1P	—	
	**GCA Series** 160 lb-in (18 Nm) 90 s Runtime 15 s Spring Return	**On/Off** 2-Position	24 VAC/DC	GCA121.1U	—	—	—	—	GCA126.1U	—	R: 3-8" ... 1" Sq: 1/4" ... 3/4"
				GCA121.1P	—	—	—	—	GCA126.1P	—	
			120 VAC	GCA221.1U	—	—	—	—	GCA226.1U	—	
		Floating 3-Position	24 VAC/DC	GCA131.1U	—	GCA132.1U	—	—	GCA136.1U	—	
				GCA131.1P	—	—	—	—	GCA136.1P	—	
		Modulating 0(2) - 10 VDC	24 VAC/DC	GCA151.1U	—	—	—	—	GCA156.1U	—	
				GCA151.1P	—	—	—	—	GCA156.1P	—	
		Modulating 0 - 10 VDC	24 VAC/DC	GCA161.1U	—	—	GCA163.1U	GCA164.1U	GCA166.1U	—	
				GCA161.1P	—	—	GCA163.1P	GCA164.1P	GCA166.1P	—	
Non-Spring Return Damper Actuators											
	**GSD Series** 20 lb-in (2 Nm) 30 s Runtime	**On/Off & Floating** 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	—	
		Modulating 0(2) - 10 VDC	24 VAC/DC	GSD161.1P	—	—	—	—	GSD166.1P	—	
	**GDE Series** 44 lb-in (5 Nm) 90 s Runtime	**On/Off & Floating** 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	GDE141.1P/B	
			100 to 240 VAC	GDE341.1U	—	—	—	—	GDE346.1U	—	
		Floating 3-Position	24 VAC	GDE131.1U	—	—	—	—	—	GDE131.1U/B	
				GDE131.1P	—	GDE132.1P	—	—	GDE136.1P	GDE131.1P/B	
				—	GDE131.1T	—	—	—	—	GDE131.1T/B	
		Modulating 0(2) - 10 VDC	24 VAC/DC	GDE161.1P	GDE161.1Q	—	GDE163.1P	GDE164.1P	GDE166.1P	GDE161.1P/B	
	**GLB Series** 88 lb-in (10 Nm) 150 s Runtime	**On/Off & Floating** 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	—	
		Modulating 0(2) - 10 VDC	24 VAC/DC	GLB161.1P	GLB161.1Q	—	—	—	GLB166.1P	—	
	**GEB Series** 177 lb-in (20 Nm) 150 s Runtime	**Floating** 3-Position	24 VAC/DC	GEB141.1U	—	GEB142.1U	—	—	GEB146.1U	—	R: 1/4" ... 3/4" Sq: 1/4"... 1/2"
				GEB141.1P	—	—	—	—	—	—	
		Modulating 0(2) - 10 VDC	24 VAC/DC	GEB161.1U	—	—	—	GEB164.1U	—	—	
				GEB161.1P	—	—	—	—	—	—	
	**GBB Series** 221 lb-in (25 Nm) 150 s Runtime	**Floating** 3-Position	24 VAC/DC	GBB141.1U	—	—	—	—	GBB146.1U	—	R: 3/8" ... 1" R: 1/4" ... 5/8" R: 3/8" ... 1" Sq: 1/4"... 5/8"
				GBB141.1P	—	GBB142.1U	—	—	GBB146.1P	—	
		Modulating 0(2) - 10 VDC	24 VAC/DC	GBB161.1U	—	—	GBB163.1U	GBB164.1U	GBB166.1U	—	
				GBB161.1P	—	—	GBB163.1P	GBB164.1P	GBB166.1P	—	
	**GIB Series** 310 lb-in (35 Nm) 125 s Runtime	**Modulating** 0(2) - 10 VDC	24 VAC/DC	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		Volumetric Flow Type	Communication	Operating Voltage	Standard Model	Pre-Cabled Terminal Strip	Pressure Sensor	Room Sensor / Thermostat	Commissioning Tool Type	PC Tool	Handheld Tool	Dimensions, Damper Shaft Round / Square
Variable Air Volume Damper Actuators							**Sensor**		**Commisioning Tools**			
	**DXR1** 88lb-in (10 NM) 150 sec run time 0-500Pa	**VAV**	BACnet/IP	24 VAC	DXR1. E10PL-112/US	Plug-in Terminal Blocks	0..500 Pa	QMX3.P30: Temp Sensor QMX3.P34: Temp Sensor w/HMI QMX3.P70: Temp/RH/CO2 Sensor QMX3.P74: Temp/RH/CO2 Sensor w/HMI	Mobile Commissioning / Climatix App	—	—	R:3/8...5/8" R: 3/8...7/16" (with centering insert) Sq:1/4...1/2"
		Fan Powered Box			DXR1. E10PL-113/US							

Actuators for HVAC Applications		Control Signal	Operating Voltage	Standard Model	Pre-Cabled Terminal Strip (T); Extended 6 ft. Cable (Q)	Potentio-meter (1 kOhm)	Adjustable Start Span	Adj. Start / Span + Two Auxiliary Switches	Two auxillary switches	Bulk Pack Available	Dimensions, Damper Shaft Round / Square (inch)
Fast-Acting Damper Actuators											
	**GNP Series** Fail-Safe 53 lb-in (6 Nm) 2 s Runtime 2 s Spring Return	**On/Off** 2-Position **Floating** 3-Position **Modulating** 0 (2) - 10 VDC 4 to 20 mA	24 VAC/DC	GNP191.1P	—	—	—	—	GNP196.1P	—	R: 1/4" ... 3/4" Sq: 1/4" ... 1/2""
	**GAP Series** Fail-In-Place 53 lb-in (6 Nm) 2 s Runtime	**On/Off** 2-Position **Floating** 3-Position **Modulating** 0 (2) - 10 VDC 4 to 20 mA	24 VAC/DC	GAP191.1P	—	—	—	—	GAP196.1P	—	R: 1/4" ... 3/4" Sq: 1/4" ... 1/2"
Fire and Smoke Damper Actuators											
	**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	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	GVD121.1U	—	—	—	—	GVD126.1U	—	R: 1/2"
			120 VAC	GVD221.1U	—	—	—	—	GVD226.1U	—	
			230 VAC	GVD321.1U	—	—	—	—	GVD326.1U	—	
Fire and Smoke Damper Accessories											
	**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							

Selection Guide

Square footage is approximate, based on 4 lb-in/ ft²

	Electronic																	Pneumatic*		
	Spring Return									Non-Spring Return								Spring Return		
	GQD	GJD	GRD	GPC	GNP	GMA	GKD	GCA	GVD	GSD	GDE	GAP	GLB	GEB	GBB	GIB	DXR1	No. 3	No. 4	No. 6
Application	5ft²	5ft²	8ft²	9ft²	12ft²	16ft²	20ft²	40ft²	50ft²	5ft²	11ft²	12ft²	22ft²	32ft²	55ft²	77ft²	22ft²	12ft²	16ft²	24ft²
Terminal Units	•			•		•				•	•		•				•	•		
Fan Powered Box (FPB)																	•			
Face and Bypass											•		•						•	
Multi-Zone Mixing Boxes								•			•		•		•	•				
Bypass Dampers											•		•							
Makeup Air Damper											•		•			•				
Outside Air Dampers	•			•		•		•		•				•	•	•				
Small Rooftop Units (RTU)	•			•		•				•				•						
Economizer Dampers	•			•		•														
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

Global leadership in electronic damper actuators

40+ Years
Innovating control actuators

25%
Lower power consumption

20%
More torque than the competition

100%
Factory tested

5 Million
Repositions at rated torque and temperature

1.5 Million
Full stroke cycles at rated torque and temperature

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