Submittal Sheet

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# OpenAir® GQD Series, Spring Return, 20 lb-in (2 Nm), Rotary Electronic Damper Actuators

	Torque	Voltage		Control Signals			ρ	ole	ch
Product Number*	20 lb-in	24 Vac/dc	120 Vac	2-Position	Floating	Modulating 2 to 10 Vdc/	Plenum Cabling	Appliance Cable	<b>Auxiliary Switch</b>
GQD121.1P	•	•	_	•	_	_	•	_	_
GQD126.1P	•	•	_	•	-	_	•	_	•
GQD131.1P	•	•		_	•	_	•	_	_
GQD136.1P	•	•	_		•	_	•	_	•
GQD151.1P	•	•	_	_	-	•	•	_	_
GQD156.1P	•	•				•	•	_	•
GQD221.1U	•		•	•	_	_		•	_
GQD226.1U	•		•	•	_	_		•	•

<sup>\*</sup> Add /B to part number to order a bulk pack of 10.

#### **Technical Data**

Torque Runtime for 90° Spring Return Nominal angle of rotation Power consumption:

24 Vac ±20%/ 24 Vdc ±15%

GQD12x GQD13x GQD15x

120 Vac ±15%

GQD22x

Damper shaft size

Damper shaft size, minimum Agency listings

120 Vac
Ambient temperature
Operating
Storage/transport
Ambient humidity (non-condensing)
Pre-cabled connection
Enclosure
Housing material
Dimensions:
GQDxx6.1x

GQDxx1.1x

GQDxx6.1x w/conduit box

Weight

20 lb-in (2 Nm) 30 seconds 15 seconds typical 90° typical

10 VA

Running	Holding
6.5 VA (4.5W)	4 VA (2.5W)
4 VA (2.5W)	3 VA (1.5W)
4.5 VA (3W)	3.5 VA (2W)

3/8-inch to 1/2-inch diameter (8 mm to 13 mm) 1/4-inch to 7/16-inch square (6 mm to 11 mm) 3/4-inch (20 mm) minimum length UL listed to UL873 cUL listed; CE certified EMC and Low Voltage Directives

7 V/A

-25°F to 130°F (-32°C to 55°C) -40°F to 158°F (-40°C to 70°C) 95% rh (non-condensing) 18 AWG (0.75mm²), 3 ft (0.9m) long NEMA 1 Plenum rated rugged plastic

4-23/32" × 2-22/32" × 2-15/32" (120 mm × 69 mm × 63 mm) 5-1/2" × 2-22/32" × 2-15/32" (138.5 mm × 69 mm × 63 mm) 6-3/16" × 2-22/32" × 2-15/32" (156.7 mm ×69 mm ×63 mm) 1.06 lbs (0.48 kg)

### Description

The OpenAir GQD Series direct-coupled, spring return rotary electronic damper actuators are 24 Vac/dc rated and available in 2-position, floating, and modulating (2 to 10 Vdc) control. The small footprint and torque make this actuator ideal for small HVAC dampers, economizers, or residential zone dampers requiring fail-safe operation.



#### **Features**

- Bi-directional, fail-safe spring return
- Pre-cabled
- Plenum rated models available
- Optional built-in auxiliary switches with fixed switch points at 5° and 85° rotation
- Fast run time
- Signal inversion capability on modulating type (2 to 10 Vdc or 10 to 2 Vdc)
- Small footprint for installation flexibility
- UL and cUL listed; CE certified
- These devices were approved for installation in plenum areas by Underwriters Laboratories, Inc. per UL 1995.
- Low voltage models are 24 Vac/dc compatible
- All models without auxiliary switches are equipped with a conduit adapter.
- 120 Vac, 1/2" NPT conduit, model available
- Fixed Dual End Switches
  24 Vdc, 24 Vac to 250 Vac
  6A resistive
  2FLA/12 LRA
  SPST
  Fixed 5° and 85°

#### **Wiring Diagrams**

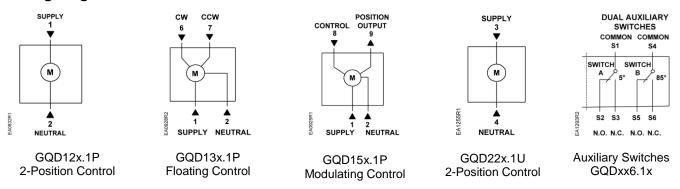


Figure 1. Wiring Diagrams.

## Dimensions in Inches (Millimeters)

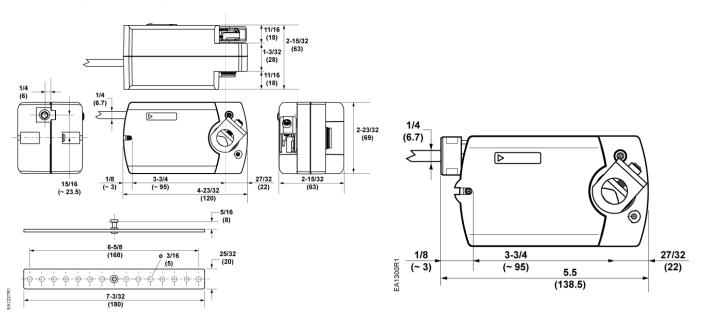


Figure 2. GQDxx6.1x Actuators and Mounting Bracket.

Figure 3. GQDxx1.1x Actuators Only.

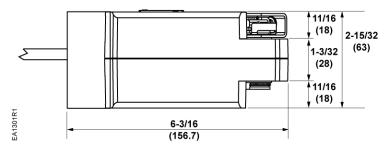


Figure 4. GQDxx6.1x with Conduit Box.

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