

## M9203-xxx-2(Z) Series Electric Spring-Return Actuators

### Description

The M9203-xxx-2(Z) Series Electric Spring-Return Actuators provide control of dampers in HVAC systems. All actuators in this series provide 27 lb-in (3 N-m) rated torque. A mechanical spring-return system provides rated torque with and without power applied to the actuator. The series includes the following control options:

- On/Off, 24 V, 85 to 264 VAC power
- On/Off and Floating Point, 24 V power
- Proportional, 24 V power, for 0(2) to 10 VDC or 0(4) to 20 mA Control Signal

These actuators are configured for direct mounting and do not require a damper linkage. Actuators can be mounted directly to a damper shaft from 1/4 to 1/2 in. (6 to 12 mm) diameter with a universal clamp. An accessory crankarm and remote mounting kit are available for applications where the actuator cannot be direct-coupled to the damper shaft. An optional line voltage auxiliary switch indicates an end-stop position or performs switching functions within the selected rotation range.

Refer to the *M9203-xxx-2(Z) Series Electric Spring-Return Actuators Product Bulletin (LIT-12011674)* for important product application information.

### Features

- 27 lb-in (3 N-m) rated torque
- direct-coupled design
- reversible mounting
- electronic stall detection
- double-insulated construction
- microprocessor-controlled brushless DC motor (-AGx and -GGx types)
- external mode selection switch (-AGx and -GGx types)
- integral cables with colored and numbered conductors
- integral 1/2 in. (13 mm) threaded conduit connectors
- optional integrated auxiliary switch
- plenum rated models
- override control (proportional models only)
- Underwriters Laboratories Inc.® (UL), CE, and C-Tick compliance
- manufactured under International Standards Organization (ISO) 9001 quality control standards
- 5-year warranty



**M9203-xxx-2(Z) Series Electric Spring-Return Actuator**

### Accessories and Replacement Parts

Code Number	Description
<b>DMPR-KC003<sup>1</sup></b>	7 in. (178 mm) Blade Pin Extension (without Bracket) for Johnson Controls Direct-Mount Damper Applications (Quantity 1)
<b>M9000-200</b>	Commissioning Tool that Provides a Control Signal to Drive 24 V On/Off, Floating, Proportional, and/or Resistive Electric Actuators (Quantity 1)
<b>M9000-321</b>	Weather Shield Kit for Damper Application of M9203 and M9208 Series Electric Spring-Return Actuators (Quantity 1)
<b>M9000-341</b>	Weather Shield Kit for VG1000 Series Ball Valve Application of M(VA)9104, M(VA)9203, and M(VA)9208 Series Electric Spring-Return Actuators (Quantity 1)
<b>M9000-400</b>	Jackshaft Linkage Adapter Kit (Quantity 1)
<b>M9000-560</b>	Ball Valve Linkage Kit for Applying M9104, M9203, and M9208 Series Electric Actuators to VG1000 Series Valves (Quantity 1)
<b>M9000-561</b>	Thermal Barrier Kit for M9000-560 Ball Valve Linkage. Extends M(VA)9104, M(VA)9203, and M(VA)9208 Series Electric Spring-Return Actuators Applications to Include Low-Pressure Steam (Quantity 1)
<b>M9000-604</b>	Replacement Anti-Rotation Bracket Kit for M9203, M9208, M9210, and M9220 Series Electric Spring-Return Actuators (Quantity 1)
<b>M9000-606</b>	Position Indicator for Damper Applications (Quantity 5)
<b>M9000-607</b>	Position Indicator for VG1000 Series Ball Valve Applications (Quantity 5)
<b>M9203-100</b>	Remote Mounting Kit with Crankarm Kit (Quantity 1)
<b>M9203-110</b>	Universal Mounting Kit without Crankarm Kit (Quantity 1)
<b>M9203-115</b>	Universal Mounting Kit with Crankarm Kit (Quantity 1)
<b>M9203-150</b>	Crankarm Kit (Quantity 1)
<b>M9203-250</b>	Remote Mounting Kit with Crankarm Kit and Damper Linkage for D1300 Dampers (Quantity 1)
<b>M9203-601</b>	Replacement Standard Coupler Kit (with Retainer) for Mounting M9203 Series Electric Spring-Return Actuators (Quantity 1)
<b>M9203-602</b>	Replacement Retainer for M9203 Series Electric Spring-Return Actuators (Quantity 5)
<b>M9203-603</b>	Adjustable Stop Kit for M9203 Series Electric Spring-Return Actuators (Quantity 1)

1. Furnished with the damper and may be ordered separately