

HVAC CONTROL PRODUCTS

Actuators

Spring Return Damper Actuators

M9203

(Joventa DxF1.03S-Z)

3 Nm, ON/OFF, Floating and Proportional Control

The M9203 Series Electric Spring Return Actuators are direct-mount actuators.

These bidirectional actuators do not require a damper linkage, and are easily installed on round shafts or square shafts using the standard shaft clamp included with the actuator.

A single M9203 Series Electric Spring Return Actuator provides 3 Nm running and spring return torque.

An integral line voltage auxiliary switch, available only on the M9203-xxB-1(Z) models, indicates end stop position, or performs switching functions within the selected rotation range.

M9203 Series Actuators provide 95° of rotation. A graduated scale from -5° to 90° and a position indicator provide visual indication of stroke.

When power fails during service, the mechanical spring return system provides rated torque to the connected equipment, returning it to the home position.

The series includes the following control options:

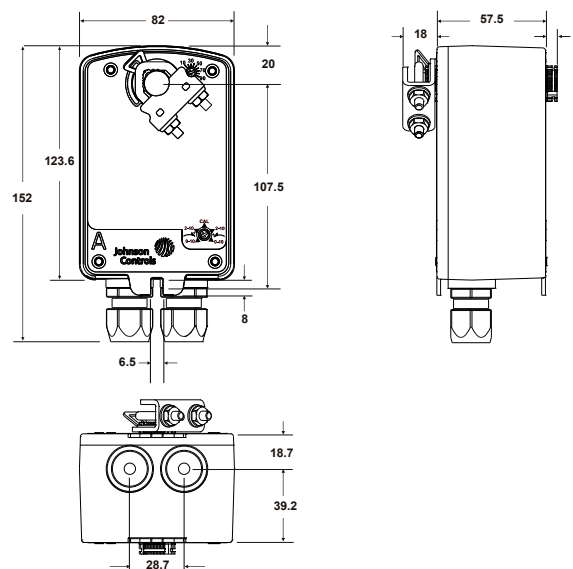
ON/OFF, 24 V, 100 to 240 VAC power

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.

Features

- 3 Nm 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
- Optional Integrated Auxiliary Switch
- Override Control (Proportional Models Only)
- Manufactured under International Standards Organization (ISO) 9001 Quality Control Standards



Dimensions in mm

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Ordering Codes		
Johnson Controls	Joventa	Description
M9203-AGA-1	DBF1.03	3 Nm, 24 V AC/DC Floating and ON/OFF, 150 sec. running time
M9203-AGB-1	DBF1.03S	3 Nm, 24 V AC/DC Floating and ON/OFF, 150 sec. running time, 1 auxiliary switch
M9203-AGA-1Z	DBF1.03Z	3 Nm, 24 V AC/DC Floating and ON/OFF, 90 sec. running time
M9203-AGB-1Z	DBF1.03SZ	3 Nm, 24 V AC/DC Floating and ON/OFF, 90 sec. running time, 1 auxiliary switch
M9203-BGA-1	DAF1.03	3 Nm, 24 V AC/DC ON/OFF, 60 sec. running time
M9203-BGB-1	DAF1.03S	3 Nm, 24 V AC/DC ON/OFF, 60 sec. running time, 1 auxiliary switch
M9203-BUA-1	DAF2.03	3 Nm, 100-240 V AC ON/OFF, 60 sec. running time
M9203-BUB-1	DAF2.03S	3 Nm, 100-240 V AC ON/OFF, 60 sec. running time, 1 auxiliary switch
M9203-BUA-1Z	DAF2.03Z	3 Nm, 100-240 V AC ON/OFF, 27 sec. running time
M9203-BUB-1Z	DAF2.03SZ	3 Nm, 100-240 V AC ON/OFF, 27 sec. running time, 1 auxiliary switch
M9203-GGA-1	DMF1.03	3 Nm, 24 V AC/DC Proportional, 150 sec. running time
M9203-GGB-1	DMF1.03S	3 Nm, 24 V AC/DC Proportional, 150 sec. running time, 1 auxiliary switch
M9203-GGA-1Z	DMF1.03Z	3 Nm, 24 V AC/DC Proportional, 90 sec. running time
M9203-GGB-1Z	DMF1.03SZ	3 Nm, 24 V AC/DC Proportional, 90 sec. running time, 1 auxiliary switch

Accessories (order separately)

Ordering Codes	Description
M9000-321	Weathershield Kit for Damper Application of M9203 and M9208 Series Electric Spring Return Actuators (quantity 1)
M9000-341	Weathershield 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)
M9000-400	Jackshaft Linkage Adapter Kit (quantity 1)
M9000-560	Ball Valve Linkage Kit for applying M9203, and M9208 Series Electric Actuators to VG1000 Series Valves (quantity 1)
M9000-561	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)
M9000-604	Replacement Anti-Rotation Bracket Kit for M9203, M9208, M9210, and M9220 Series Electric Spring Return Actuators (quantity 1)
M9000-606	Position Indicator for Damper Applications (quantity 5)
M9000-607	Position Indicator for VG1000 Series Ball Valve Applications (quantity 5)
M9203-100	Remote Mounting Kit with Crankarm Kit (quantity 1)
M9203-110	Universal Mounting Kit without Crankarm Kit (quantity 1)
M9203-115	Universal Mounting Kit with Crankarm Kit (quantity 1)
M9203-150	Crankarm Kit (quantity 1)
M9203-250	Remote Mounting Kit with Crankarm Kit and Damper Linkage for D1300 Dampers (quantity 1)
M9203-601	Replacement Standard Coupler Kit (with Retainer) for Mounting M9203 Series Electric Spring Return Actuators (quantity 1)
M9203-602	Replacement Retainer for M9203 Series Electric Spring Return Actuators (quantity 5)
M9203-603	Adjustable Stop Kit for M9203 Series Electric Spring Return Actuators (quantity 1)