



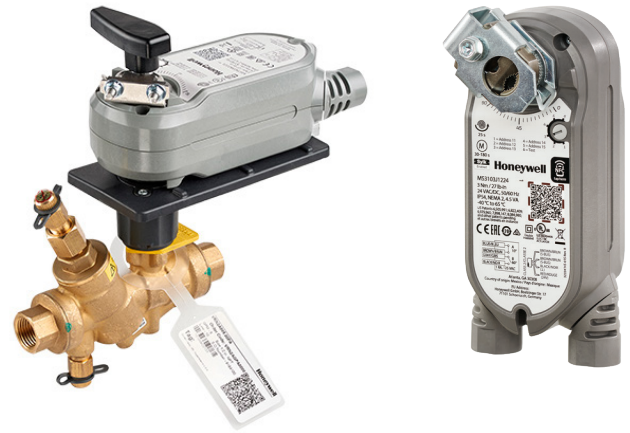
PRECISION CONTROL DIAMOND SPRING RETURN ACTUATOR

The new Honeywell Diamond Spring Return Actuator provides powerful performance in a compact and intelligent package, for fast and easy installation.



Honeywell

THE FLEXIBLE INTELLIGENT ACTUATOR YOUR PROJECTS DESERVE



INTELLIGENT PERFORMANCE

Simplified shaft adaptor and integral conduit connector saves space and eliminates the need for additional tools or conduit connectors:

- Easily accommodates most length, width and depth restrictions
- 27 lb-in (3 Nm) torque
- 24Vac / 24Vdc supply voltage
- Low energy consumption

FAST INSTALLATION

360-degree conduit connectors swivel for easy conduit installation at almost any needed angle:

- Self-centering shaft adaptor (SCSA) cuts installation time
- Fast 30s stroke test mode available

BACKED BY HONEYWELL

Honeywell has long been a leading name in actuators, and the Diamond Spring Return Actuator is the latest addition to the popular Honeywell lineup. You can count on the Diamond Actuator to support your product with reliable performance day in and day out.

MULTI-FACETED

Flexibility is built in, so you can meet a variety of applications:

- With and without self centering shaft adaptor
- With and without 360 degree conduit connectors

Operating Range:

- Temperature: -40° to 150°F (-40° to 65°C)
- Humidity: 5% to 95% R.H. non-condensing

Modulating:

- With and without analog feedback (2-10Vdc)
- With and without auxiliary switches (2x SPST, 125Vac, IA resistive)
- Drive time 90s, Spring return time <25s

Sylk Communicating:

- Controls multiple devices without using up controller I/O
- Drive time from 30s to 180s
- Can daisy chain multiple devices

SUPPORTS A RANGE OF APPLICATIONS

The combination of high quality, small size and competitive price makes the Diamond Actuator the perfect choice for high-volume, low-torque applications, including:

- Rooftop units
- Economizers
- Compact control dampers
- Control valves

DIAMOND SPRING RETURN ACTUATOR PRODUCT SELECTOR GUIDE

| Model Number | Control Input / Output Description | SPST Aux Switches | 1/2" 360° Conduit | Shaft Adaptor | Torque | Supply Voltage | Driving/ Holding (VA) | Drive (sec) |
|-----------------------------|------------------------------------|-------------------|-------------------|---------------|----------------|---|-----------------------|-------------|
| MS7103A1021 | Modulating ⁽¹⁾ | No | Yes | SCSA | 27 lb-in (3Nm) | 24 VAC +/-20% @ 50/60 Hz class 2 transformer, 24 VDC +20%/10% | 4/2 | 90 |
| MS7103A2021 | Modulating ⁽¹⁾ Feedback | No | Yes | | | | | |
| MS7103A2221 | Modulating ⁽¹⁾ Feedback | Yes | Yes | | | | | |
| MS7103A2024 | Modulating ⁽¹⁾ Feedback | No | No | U-Bolt | | | | |
| MS7103A2224 | | Yes | No | U-Bolt | | | | |
| MS3103J1023 | Sylk BUS | No | Yes | U-Bolt | | | | |
| MS3103J1024 | | | No | U-Bolt | | | | |
| MS3103J1221 | | | Yes | SCSA | | | | |
| MS3103J1222 | | Yes | No | SCSA | | | | |
| MS3103J1223 | | | Yes | U-Bolt | | | | |
| MS3103J1224 | | | No | U-Bolt | | | | |
| MS3103J1021 | | | Yes | SCSA | | | | |
| MS3103J1022 | | No | No | SCSA | | | | |

¹ 2-10 VDC

For More Information

buildingcontrols.honeywell.com or cpq.honeywell.com

Honeywell Building Technologies

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