



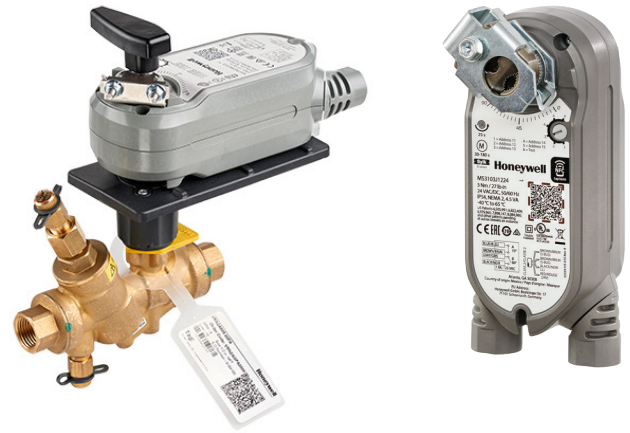
PRECISION CONTROL DIAMOND SPRING RETURN ACTUATOR

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 adapter 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 adapter (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 adapter
- 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, 1A resistive)
- Drive time 90s, Spring return time <25s

Universal:

- Floating, Modulating, or 2 position control
- With analog feedback (2-10Vdc)
- With and without auxiliary switches (2x SPST, 125 Vac, 1A 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	Modulating ⁽¹⁾ Feedback	Yes	No	U-Bolt				
MS7503A2021	Floating, Modulating, 2 - Position with Feedback	No	Yes	SCSA				
MS7503A2221		Yes		U-Bolt				
MS7503A2023		No		U-Bolt				
MS7503A2223		Yes						
MS3103J1023	Sylk BUS	No	Yes	U-Bolt	4.5/2	30-180		
MS3103J1024			No	U-Bolt				
MS3103J1221			Yes	Yes			SCSA	
MS3103J1222				No			SCSA	
MS3103J1223				Yes			U-Bolt	
MS3103J1224				No			U-Bolt	
MS3103J1021		No	Yes	SCSA				
MS3103J1022			No	SCSA				

¹ 2-10 VDC

For More Information

buildingcontrols.honeywell.com or cpq.honeywell.com

Honeywell Building Technologies

1985 Douglas Drive North
Golden Valley, MN 55422
www.honeywell.com