

M9000-310 and M9000-320

Weather Shield Enclosures



**M9000-310 and M9000-320
Weather Shield Enclosures Shown
Mounted onto a Control Damper (Left)
and an Iron Flanged Valve (Right)**

Description

The M9000-310 and M9000-320 Weather Shield Enclosures are cost-effective and durable weather shields designed to provide a degree of protection for a single Johnson Controls® M9000 Series Electric Actuator used in either control damper and iron flanged valve applications. These weather shield enclosures are manufactured to NEMA 3R specifications, and protect the electric actuator from corrosion, rain, freezing rain, sleet, and snow. The enclosure can be mounted indoors or outdoors; however, it may not prevent externally formed ice from restricting the motion of the rotary shaft.

Each enclosure is constructed of impact-grade ABS plastic that provides excellent impact resistance. The cover

features ultraviolet inhibitors that extend service life by preventing the cover from becoming brittle or damaged by the sun or other environmental elements. The transparent cover provides an unobstructed view of the electric actuator without having to disassemble the enclosure. An appliance cord enables installation of control wiring, and a form-fitting seal prevents water or moisture from entering the unit and damaging the actuator.

Refer to the *M9000-310 and M9000-320 Weather Shield Enclosures Product Bulletin (LIT-1201704)* for important product application information.

Features

- durable construction provides a degree of protection from the elements for a single Johnson Controls M9000 Series Electric Actuator used in control damper and iron flanged valve applications
- fully-enclosed NEMA 3R design protects the electric actuator from corrosion, rain, freezing rain, sleet, and snow
- impact-grade ABS plastic enclosure provides excellent impact resistance
- cover constructed using ultraviolet inhibitors extends service life by preventing the cover from becoming brittle or damaged by the sun or other environmental elements
- transparent cover allows the electric actuator to be fully viewable without having to disassemble the enclosure
- appliance cord enables installation of control wiring
- strain relief conduit fittings protect the electric actuator from damage by preventing tension on the electrical connection

Selection Chart

Code Number	Description
M9000-310 ^(a)	Weather Shield Enclosure for a Single Johnson Controls M9106-xGx-2, M9108, M9109, M9116, M9124, and M9132 Series Electric Non-Spring Return Actuator Used in Control Damper and Iron Flanged Valve Applications
M9000-320 ^(a)	Weather Shield Enclosure for a Single Johnson Controls M9216 Series Electric Spring Return Actuator Used in Control Damper and Iron Flanged Valve Applications

(a) Kit includes one enclosure base and seal assembly, one cover and gasket, and all necessary mounting hardware. One weather shield enclosure is required per electric actuator.

Specifications

M9000-310 and M9000-320 Weather Shield Enclosures	
Applications	M9000-310 Protects a Single Johnson Controls M9106-xGx-2, M9108, M9109, M9116, M9124, or M9132 Series Electric Non-Spring Return Actuator
	M9000-320 Protects a Single Johnson Controls M9216 Series Electric Spring Return Actuator
Materials	Enclosure Impact-Grade ABS Plastic
	Enclosure Seal Nitrile
	Cover Transparent Impact-Grade ABS Plastic with Ultraviolet Inhibitors
	Cover Gasket Neoprene
Weather Shield Rating	NEMA 3R, IP32
Actuator Ambient Operating Temperature Limits	M9106 and M9109: -4 to 125°F (-20 to 52°C)
	M9108, M9116, M9124, M9132, and M9216 (Excluding M9216-GGx-2): -4 to 122°F (-20 to 50°C)
	M9216-GGx-2: -22 to 122°F (-30 to 50°C)
	Steam Limited to 100°F (38°C) in Steam Applications
Weather Shield Enclosure Ambient Storage Temperature Limits	-40 to 176°F (-40 to 80°C)
Electrical Connections	Strain Relief Conduit Fittings with 1/2 in. National Pipe Straight Mechanical (NPSM) Exit
Shipping Weight	M9000-310 2.0 lb (0.9 kg)
	M9000-320 3.3 lb (1.5 kg)

To Order

Specify the code number in the selection chart.

Repair Parts

There are no repair parts available for the M9000-310 or M9000-320 Weather Shield Enclosures; unit replacement is required. For a replacement enclosure, contact the nearest Johnson Controls representative.