



M9108 Series Damper Actuators



M9108 SERIES

- Simple direct coupling reduces installation and commissioning time while improving reliability by eliminating damper linkages
- Robust 70 lb-in (8 Nm) torque rating
- Rotation range 0 to 90° in 5° increments, mechanically limited to 93°
- Fits 3/8 to 3/4" (10 to 20 mm) round shaft, 3/8 to 5/8" (10 to 16 mm) square shaft; 1" (25.4 mm) diameter jackshaft with M9000-154 adapter
- On-off, floating and proportional control inputs meet the needs of most applications
- Output position feedback provides simple closed-loop control with accurate position sensing
- Electronic stall detection ensures higher reliability by deactivating the actuator motor when a stall condition is detected
- Jumper selectable DC 0(2)...10 V or DC 0(4)...20 mA, proportional control
- Zero and span adjustment (HGx models) allows sequential operation of dampers from a single input signal of DC 0(2)...10 V, DC 0(4)...20 V or DC 0(4)...20 mA
- Jumper-selectable rotation direction and manual gear release simplify installation, setup, and field adjustments
- 2-SPDT optional auxiliary switches
- 1/2" NPT threaded housing provides easy connection for electrical fittings
- Manual gear release simplifies damper / valve setup and commissioning
- -4 to 122°F (-20 to 50°C) ambient temperature range
- Rated for 60,000 full stroke cycles
- UL Listed, CSA Certified, CE Mark

M9108 SERIES NON-SPRING RETURN DAMPER ACTUATORS

CODE NUMBER	CONTROL TYPE	TORQUE/TIMING/VOLTAGE	AUXILIARY SWITCHES	COMMENTS
M9108-AGA-2	ON-OFF / FLOATING	70 LB-IN (8 NM) 25 - 50 SEC TIMING AC 24 V 50/60 HZ DC 24 V	NONE	
M9108-AGC-2			2-SPDT	
M9108-AGD-2	DC 0(2) . . . 10 V DC 0(4) . . . 20 MA PROPORTIONAL		NONE	135 OHM POTENTIOMETER
M9108-AGE-2				1000 OHM POTENTIOMETER
M9108-GGA-2	DC 0 . . . 10 V DC 0 . . . 20 MA PROPORTIONAL			DC 0(2) . . . 10 V FEEDBACK
M9108-GGC-2			2-SPDT	
M9108-HGA-2	DC 0 . . . 10 V DC 0 . . . 20 MA PROPORTIONAL ADJUSTABLE START & SPAN		NONE	DC 0 . . . 10 V FEEDBACK
M9108-HGC-2			2-SPDT	
M9108-JGA-2	100 - 10,000 OHM POTENTIOMETER		NONE	
M9108-JGC-2			2-SPDT	



M9116 Series Damper Actuators



M9116 SERIES

- Simple direct coupling reduces installation and commissioning time while improving reliability by eliminating damper linkages
- Robust 140 lb-in (16 Nm) torque rating
- Rotation range 0 to 90° in 5° increments, mechanically limited to 93°
- Fits 3/8 to 3/4" (10 to 20 mm) round shaft, 3/8 to 5/8" (10 to 16 mm) square shaft; 1" (25.4 mm) diameter jackshaft with M9000-154 adapter
- On-off, floating and proportional control inputs meet the needs of most applications
- Output position feedback provides simple closed-loop control with accurate position sensing
- Master/slave operation allows synchronized control for two actuators stacked for tandem applications – doubles rated torque output
- Electronic stall detection ensures higher reliability by deactivating the actuator motor when a stall condition is detected
- Jumper selectable DC 0(2)...10 V or DC 0(4)...20 mA, proportional control
- Zero and span adjustment (HGx models) allows sequential operation of dampers from a single input signal of DC 0(2)...10 V, DC 0(4)...20 V or DC 0(4)...20 mA
- Jumper-selectable rotation direction and manual gear release simplify installation, setup, and field adjustments
- 2-SPDT optional auxiliary switches
- 1/2" NPT threaded housing provides easy connection for electrical fittings
- Manual gear release simplifies damper / valve setup and commissioning
- -4 to 122°F (-20 to 50°C) ambient temperature range
- Rated for 60,000 full stroke cycles
- UL Listed, CSA Certified, CE Mark

M9116 SERIES NON-SPRING RETURN DAMPER ACTUATORS

CODE NUMBER	CONTROL TYPE	TORQUE/TIMING/VOLTAGE	AUXILIARY SWITCHES	COMMENTS
M9116-AGA-2	ON-OFF / FLOATING	140 LB-IN (16 NM) 70 - 115 SEC TIMING AC 24 V 50/60 HZ DC 24 V	NONE	
M9116-AGC-2			2-SPDT	
M9116-AGD-2			NONE	135 OHM POTENTIOMETER
M9116-AGE-2				1000 OHM POTENTIOMETER
M9116-GGA-2	DC 0(2) . . . 10 V DC 0(4) . . . 20 MA PROPORTIONAL			DC 0(2) . . . 10 V FEEDBACK
M9116-GGC-2			2-SPDT	
M9116-HGA-2	DC 0 . . . 10 V DC 0 . . . 20 MA PROPORTIONAL ADJUSTABLE START & SPAN		NONE	DC 0 . . . 10 V FEEDBACK
M9116-HGC-2			2-SPDT	
M9116-JGA-2	100 - 10,000 OHM POTENTIOMETER		NONE	
M9116-JGC-2			2-SPDT	