



M9106 Series Damper Actuators



M9106 SERIES

- Simple direct coupling reduces installation and commissioning time and improves reliability by eliminating damper linkages. Single screw coupling provides three-point shaft gripping
- Designed for zone damper and ball valve actuator applications
- Small, compact design – allows installation in tight-fitting locations
- Rotation range adjustable 30 to 90 degrees CW or CCW
- Fits 3/8 to 1/2" (10 to 13 mm) round or 3/8" (10 mm) square shaft
- On-off, floating and jumper selectable DC 0(2)...10 V or DC 0(4)...20 mA proportional control
- Jumper selectable DA / RA operation
- 60 second running time at 60 Hz
- Long life brushless synchronous drive motor technology – provides constant running time independent of load
- Robust 53 lb-in (6 Nm) torque rating
- Whisper quiet 35 dBA noise rating
- Magnetic clutch – provides over torque protection over the entire range of rotation
- 2-SPDT optional auxiliary switches
- -4 to 125°F (-20 to 52°C) ambient temperature rating
- 100,000 full stroke cycle, 2,500,000 reposition rating
- Manual gear release simplifies setup and field adjustments
- 1/2" NPT threaded conduit opening meets electrical code requirements and allows the use of flexible armored cable
- Position feedback (GGX models) provides simple, closed-loop control with accurate position sensing
- Adjustable rotation stops allow application versatility with 30 to 90° clockwise or counterclockwise rotation
- UL Listed, CSA Certified, CE Mark

M9106 SERIES NON-SPRING RETURN DAMPER ACTUATORS

| CODE NUMBER | CONTROL TYPE | TORQUE/TIMING/VOLTAGE | AUXILIARY SWITCHES | COMMENTS |
|-------------|---|---|--------------------|---|
| M9106-AGA-2 | FLOATING | 53 LB-IN (6 NM) 60 SEC TIMING AT 60 HZ AC 24 V 50/60 HZ | NONE | |
| M9106-AGC-2 | | | 2-SPDT | |
| M9106-AGF-2 | FLOATING W/RESISTIVE FEEDBACK | | NONE | 10,000 OHM FEEDBACK POT |
| M9106-GGA-2 | DC 0(2) . . . 10 V DC 0(4) . . . 20 MA PROPORTIONAL | | NONE | DC 0(2) . . . 10 V FEEDBACK |
| M9106-GGC-2 | | | 2-SPDT | |
| M9106-IGA-2 | ON-OFF / FLOATING | | NONE | ADJUSTABLE TIMING 1, 1.5, 2, 5.5 OR 11 MIN. |
| M9106-IGC-2 | | | 2-SPDT | |



M9109 Series Damper Actuators



M9109 SERIES

- Simple direct coupling reduces installation and commissioning time and improves reliability by eliminating damper linkages. Single screw coupling provides three-point shaft gripping
- Designed for zone damper and ball valve actuator applications
- Small, compact design – allows installation in tight-fitting locations
- Rotation range adjustable 30 to 90 degrees CW or CCW
- Fits 3/8 to 1/2" (10 to 13 mm) round or 3/8" (10 mm) square shaft
- Floating control and jumper selectable DC 0(2)...10 V or DC 0(4)...20 mA proportional control
- Jumper selectable RA / DA operation
- 60 second running time at 60 Hz
- Long life brushless synchronous drive motor technology – provides constant running time independent of load
- Robust 80 lb-in (9 Nm) torque rating
- Whisper quiet 35 dBA noise rating
- Magnetic clutch – provides over torque protection over the entire range of rotation
- 2-SPDT optional auxiliary switches
- -4 to 125°F (-20 to 52°C) ambient temperature rating
- 100,000 full stroke cycle, 2,500,000 reposition rating
- Manual gear release simplifies setup and field adjustments
- 1/2" NPT threaded conduit opening meets electrical code requirements and allows the use of flexible armored cable
- Position feedback (GGX models) provides simple, closed-loop control with accurate position sensing
- Adjustable rotation stops allow application versatility with 30 to 90° clockwise or counterclockwise rotation
- UL Listed, CSA Certified, CE Mark

M9109 SERIES NON-SPRING RETURN DAMPER ACTUATORS

| CODE NUMBER | CONTROL TYPE | TORQUE/TIMING/VOLTAGE | AUXILIARY SWITCHES | COMMENTS |
|-------------|---|---|--------------------|-----------------------------|
| M9109-AGA-2 | FLOATING | 80 LB-IN (9 NM) 60 SEC TIMING AT 60 HZ AC 24 V 50/60 HZ | NONE | |
| M9109-AGC-2 | | | 2-SPDT | |
| M9109-GGA-2 | DC 0(2) . . . 10 V DC 0(4) . . . 20 MA PROPORTIONAL | | NONE | DC 0(2) . . . 10 V FEEDBACK |
| M9109-GGC-2 | | | 2-SPDT | |