

## Electric Actuators

**DynaQuip Controls can provide actuators and hardware to automate existing valves of other brands and manufacturers. Contact DynaQuip Controls Customer Service, or your local Dynaquip distributor, and allow us to help solve your automation problems.**

DynaQuip Controls offers two series of electric rotary actuators with output torques from 150 to 31,000 inch pounds. Our DE and MA Series actuators are available in AC and DC voltages and provide some of the most compact, high-output designs available anywhere. DynaQuip electric actuators provide a solid foundation for automating almost any quarter-turn application. Electric actuators are used where plant air and compressors are not available. They are the actuators of choice in cold temperatures, corrosive environments, and are easily integrated into distributed control systems. Automating ball, butterfly, and plug valves are the primary application of most end users. DynaQuip electric actuators can also be used to operate quarter-turn louver and damper mechanisms.



### Electric Actuator Options

The following options may require a custom quote from Customer Service team.

- **Auxiliary Limit Switches**  
Additional dry contact limit switches within the control housing to indicate various valve positions remotely, or to stop the valve at intermediate positions, or to control other pieces of equipment, such as pumps.
- **NEMA 4, 4X, 7, and 9**  
Various NEMA ratings available to meet specific environmental requirements: watertight, corrosion resistant, or explosion proof. Special housings for high-pressure wash down also available.
- **Timer**  
Adjustable time intervals and length of time open and/or closed.
- **Modulating Controls**  
Accepts a 4 - 20 mA , 0 - 5 VDC, or 0 - 10 VDC control signal to position the valve at various degrees of open/close.
- **Continuous Position Indication**  
Gives a continuous remote indication of the degrees or percent of opening based on either a resistance output of 0 - 1000 ohms or a current output of 4 - 20 mA. Other options available.
- **Fail-Safe Backup**  
Battery backup system that allows normal operation of actuator with 120 volt AC but converts battery DC to AC upon incoming AC power failure.
- **Spring-Return Fail-Safe**  
Fail-safe spring backup system within the electric actuator takes over upon loss of AC power.

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## DE Series

The **DE Series Electric Actuators** are ultra-compact, providing a high output-to-size ratio. In addition, the DE Series has a multitude of features not normally found in this class of actuator.

*(PLEASE CALL CUSTOMER SERVICE for other voltage requirements.)*

- **Wire in Parallel**
  - Independent Circuits Not Necessary
- **Quick Setting - Easy Access Cams**
- **Type 316 Stainless Steel Output Shaft**
- **NEMA 4 and 4X Weatherproof and Corrosion-Resistant Housing and Cover**
  - Durable Die-Cast Aluminum Housing
  - Corrosion-Resistant Epoxy Polyurethane Coating and Stainless Steel Fasteners
- **Heavy Duty Heat Treated Pinion Gearing**
  - Lubricated for Life
- **Manual Override**
  - Local Position Indication

- **50% Duty Rated Long Life Reversing Motors**
  - Thermal Overload Protection
  - 120 Volt AC Single Phase Plus Optional Voltages
  - Two Limit Switches for Motor Control and Remote Indication of End of Travel
  - 180° Travel Capability
- **ISO 5211 Shaft and Mounting Dimensions**
  - F03 to F05 Configurations
- **Can Be Mounted in Any Position or Orientation**

Catalog Number	Torque (in/lbs)	Mounting ISO 5211
DE153	150	F03
DE154	150	F04
DE305	300	F05

Options:

Suffix "B" for 220 VAC, PH1

Suffix "H" for 12 to 24 VAC,

PH1 and 12 to 24 VDC



## MA Series

The **MA Series** is DynaQuip Controls' heavyweight contender with 795 to 30,975 inch-pounds of torque output. Self-locking high-alloy steel gear train makes this the ideal electric actuator for operation on a wide variety of industrial and commercial applications. The MA Series can be applied for service on most ball, butterfly, and plug valves; dampers and vents; and other similar rotary quarter-turn automation applications. Specialized needs are easily addressed by combining DynaQuip Controls' actuators with any of the many electric actuator accessories.

*(PLEASE CALL CUSTOMER SERVICE for other voltage requirements.)*

- **NEMA 4 Weatherproof/Corrosion-Resistant Housing**
- **Die Cast Aluminum**
- **Epoxy Polyurethane Paint**
- **Stainless Steel Fasteners**
- **Two (2) 1/2" NPT Conduit Entries**
- **Self-Locking, High-Alloy Steel Gear Train**
- **Lubricated for Life**
- **Plated Steel Output Shaft**
- **30% Duty Rated Long Life**

- **Reversing Motors**
- **Thermal Overload Protection**
- **120 Volt AC Single Phase**
- **Four (4) Limit Switches for Motor Control and Remote Indication of End of Travel**
  - 180° Travel Capability
- **Adjustable Mechanical Travel Stops**
- **Manual Override**
- **Non-Clutch, Side-Mounted Hand Wheel**
  - Local Position Indication
- **ISO 5211 Mounting Standard**

Catalog Number	Torque (in/lbs)	Mounting ISO 5211
MA7	795	F07
MA13	1,325	F07
MA20	2,000	F07
MA35	3,540	F10
MA44	4,425	F10
MA57	5,750	F10
MA88	8,850	F14
MA132	13,275	F14
MA177	17,700	F16
MA221	22,125	F16
MA265	26,550	F16
MA309	30,975	F16

Suffix "B" for 220 VAC, PH1

Suffix "C" for 24 VAC, PH1

Suffix "D" for 12 VDC

Suffix "E" for 24 VDC

Suffix "F" for 230 volt, PH3

Suffix "G" for 460 volt, PH3



800-545-3636

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