



Limitorque® LTQ Compact Quarter-Turn Electric Actuator

Flowserve Limitorque LTQ compact, quarter-turn electric actuators are designed for maximum reliability and performance to help you reduce unplanned downtime while minimizing ownership and maintenance costs. The LTQ actuator offers a highly customizable design with broad application versatility to meet your exacting needs.

LTQ actuators are ideal for applications that require a simplistic, cost-effective, quarter-turn actuator that has a variety of controls options, torque and limit switches, and discrete position feedback capabilities. These actuators are compatible with a wide range of ball and butterfly valves, and also can be used to drive dampers in a broad range of power, oil and gas, chemical, water and general industry applications.

Superior reliability, performance and repeatability

The actuator's compact epicyclic drive transmission technology provides unmatched multiplication of motor torque. It also improves the robustness of the design by reducing wear and extending the life of the actuator in comparison to worm- or spur-type mechanical drives.

Lower total cost of ownership

A self-locking design with a permanently lubricated drive eliminates the need for periodic lubrication and allows for maintenance-free operation over the life of the actuator.

High degree of customization

The LTQ actuator is available in a range of torques from 35 to 2,299 Nm (310 to 20,350 in-lb), operating voltages from 12 VAC/VDC to three-phase 575 VAC, and fail-safe (super-cap, battery backup) options that allow for a higher degree of customization to meet exacting customer needs.

Control variety

Actuator control options are available in analog modulation, local control stations, and discrete two-, three-, four and five-wire control configurations that can be powered internally or externally by 24 VDC or 110 VAC.



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LTQ008 Series



LTQ150 Series



LTQ0H3 Series



LTQ034 Series

Specifications

	LTQ 003-004	LTQ 008-203
Voltage	12/24 VAC/DC, 120/240 1PH VAC	12/24 VAC/DC, 120/240 1PH VAC, 230 to 575, 3PH VAC
Torque	35 to 50 Nm (310 to 440 in-lb)	99 to 2,299 Nm (880 to 20,350 in-lb)
Speed (90°)	8 to 10 seconds	14 to 34 seconds
Conduits	(2) ½ in EMT	(2) ¾ in EMT
Controls	Five-wire open/close, mod, control station, supercap/battery backup	Two, three-, four and five-wire open/close, mod, control station, battery backup
Temperature range	-30°C to 70°C (-22°F to 158°F)	
Design standards	NEMA 4/4X, IP 67/68, ISO5211	
Test standards	AWWA C542, 200 hours salt spray	
Certificate/approvals	CSA	