

QT-2500

ELECTRIC QUARTER-TURN VALVE ACTUATOR



OVERVIEW

QT 2500 is suitable for butterfly- and ball valves with an operating torque of 800-2500 Nm. The quarter turn series offers a high level of precision on the control of valves.

NAG electric valve actuators are designed to be maintenance free, and feature completely enclosed, permanently lubricated transmissions to ensure extended reliable service in the harshest operating conditions.

FEATURES

- Precise quarter-turn control
- IP68 aluminum housing (stainless steel available)
- Easy installation and/or retrofit
- User-configurable torque, closing time, and position
- Permanently lubricated
- Low power consumption
- Manual emergency override

QT-2500 SPECIFICATIONS

Technical Data	
Torque*	800- 2500 Nm max
Valve Stem Connector**	See notes
Valve Applications	Butterfly and ball valves with partial turn operation (typical)
Valve Flange**	See notes
Min-Max Closing Time	0-100% / 0-90° 30-120 sec
Mechanical	
Dimensions (H,W,D)	22.9, 9.7, 10.7 in (583, 247, 273 mm)
Weight	152.12 lbs (69 kg)
Housing	IP68 (continuous submersion, 32 ft / 10 m - 72 hrs) corrosion-resistant aluminum housing
Operating Temp.	-13° to 131°F (-25° to 55°C)
Over Temp. Protection	Current controlled
Under Temp. Protection	Stator coils used as heating element
Finish	Black
Electrical	
Supply Voltage	110-240 V AC/DC (50/60 Hz) 4A (110 V) / 2A (240V)
Power Consumption	Max: 200W Standby: 25W
Cables & Cable Glands	
Power	Up to five (5) M20 cable glands allow for serial connection of power supply and fieldbus wiring Actuator housing includes threaded mounting holes Use IP68 glands for all wires to maintain IP rating Optimized for fieldbus installation (refer to installation manual for specific requirements)
Control	
Interface Options	Digital: 2x digital input (Open & Close) 3x digital output (Open, Closed & Alarm) Analog: analog input (Set Position) analog output (Feedback Position) digital output (Open, Closed & Alarm) Modbus Fieldbus: Max 31 nodes per/network CANopen Fieldbus: Max. 127 nodes/network, allows positioning and other extended controls
Network Valve-Position Sensor	Absolute position sensor, provides correct feedback even after power failure
Resolution	0.39% / 0.35° & 360° range
Configuration/Set-Up	USB connection to PC with Eltorque Manager v.3
Configurable Parameters	Open & Closed positions Speed, torque, valve position, valve seat position region Inverted I/O or fieldbus parameters depending on control interface
Emergency & Safety	
Manual Operation	Standard fixed hand wheel, mechanical valve-position indicator
Appx. Number of Turns	21: 0-100% / 0-90°
Certifications & Approvals	
Certifications	CE-marked Type approved by DNV, GL, CCS, ABS, (Product Design Assessment - PDA), BV, & LR

* Configurable using Eltorque Manager v.3 - download free at: www.eltorque.no/downloads

** Adapted flange bracket and stem connection is required and must be ordered with the actuator. Customer must provide a valve/manifold drawing to ensure proper mechanical interfacing.