

# QT-250

## ELECTRIC QUARTER-TURN VALVE ACTUATOR



### OVERVIEW

QT250 is suitable for a wide range of small to medium sized butterfly- and ball valves with an operating torque of 50-250 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-250 SPECIFICATIONS

Technical Data	
<b>Torque*</b>	50 - 250 Nm
<b>Valve Stem Connector</b>	Valve Spindle Adapter. SQ17, 38mm depth.
<b>Valve Applications</b>	Butterfly and ball valves with partial turn operation (typical)
<b>Valve Flange</b>	F04, F05, F07. According to ISO5211.
<b>Min-Max Closing Time</b>	0-100% / 0-90° 13 - 60 sec
Mechanical	
<b>Dimensions (H,W,D)</b>	9.01, 6.14, 8.22 in (229, 156, 209 mm)
<b>Weight</b>	26.5 lbs (12 kg)
<b>Housing</b>	IP68 (continuous submersion, 32 ft / 10 m - 72 hrs) corrosion-resistant aluminum housing
<b>Operating Temp.</b>	-13° to 131°F (-25° to 55°C)
<b>Over Temp. Protection</b>	Current controlled
<b>Under Temp. Protection</b>	Stator coils used as heating element
<b>Finish</b>	Black
Electrical	
<b>Supply Voltage</b>	110-240 V AC/DC (50/60 Hz)
<b>Power Consumption</b>	240VA Max
Cables & Cable Glands	
<b>Cable Glands</b>	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	
<b>Interface Options</b>	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
<b>Network Valve-Position Sensor</b>	Absolute position sensor, provides correct feedback even after power failure
<b>Resolution</b>	0.39% / 0.35° & 360° range
<b>Configuration/Set-Up</b>	USB connection to PC with Eitorque Manager
<b>Configurable Parameters</b>	Open & Closed positions Speed, torque, valve position, valve seat position region Inverted I/O or fieldbus parameters depending on control interface
Emergency & Safety	
<b>Manual Operation</b>	Standard fixed hand wheel, mechanical valve-position indicator
<b>Appx. Number of Turns</b>	21: 0-100% / 0-90°
Certifications & Approvals	
<b>Certifications</b>	CE-marked Type approved by DNV, GL, CCS, ABS, (Product Design Assessment - PDA), BV, & LR