

QT250 QUARTER-TURN ACTUATOR

COMPACT QUALITY

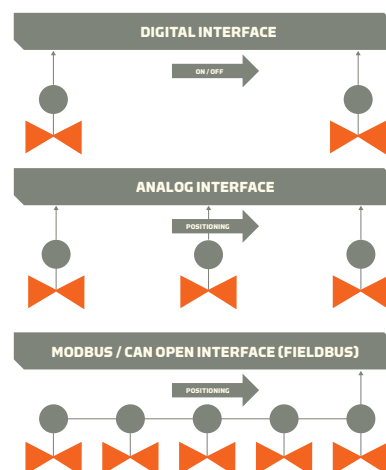
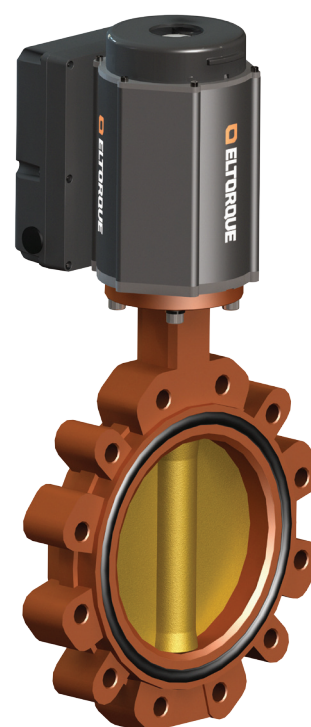
QT250 is the smallest quarter-turn actuator from Eltorque. This is suitable for a wide range of small to medium-sized butterfly- and ball valves with an operating torque of 50-250 Nm.

ELTORQUE offers a high level of precision in the control of valves. Excellent controlling possibilities, low cost of installation and operation, and no need of maintenance make ELTORQUE the future solution.

FEATURES:

QT250 1.0 & QT250 2.0Ex:

- Max torque: 250 Nm
- Valve range: DN50-DN200
- Absolute position feedback (true feedback)
- Available with Ex Zone 1 - approval
- Removable cover for hand wheel protection
- IP68 enclosure
- Available applications: On/off and positioning
- Configurable torque, closing time and position
- Type approved
- Easy commissioning
- Savings on installation
- Compact design
- Maintenance free actuator
- Full valve control with positioning on IAS
- Low power consumption
- Manual emergency override as standard
- High efficiency, green solution



QT250 SPECIFICATIONS

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	QT250 1.0	QT250 2.1 Ex
MAX-MIN TORQUE ¹	250 - 50 Nm	
MIN-MAX CLOSING TIME 0-100% / 0-90°	13 - 60 sec	
VALVE SPINDLE ADAPTER	SQ17	
VALVE FLANGE	F05, F07, F10 (According to ISO5211)	
VALVE APPLICATIONS	Butterfly or ball valves with part-turn operation. Examples butterfly valves: DN50-DN200 PN16	
PHYSICAL PROPERTIES		
WEIGHT	12 kg	
DIMENSIONS H/W/D	229/156/209 mm	
ENCAPSULATION	IP68 (5m 1hr) - Corrosion protected aluminium enclosure	
COLOR	Black	Silver
OPERATING CONDITIONS	-25 - 55 °C	-25 - 70 °C
	Not designed for use on open deck of ships, outdoor close to salt water or exposure to corrosive chemicals.	Approved for use on open deck, check details with Eltorque agent.
TEMPERATURE PROTECTION	Motor current is switched off in case of over-temperature. Stator coils utilized as heating elements in case of low temperatures.	
ELECTRICAL AND CONTROL PROPERTIES		
POWER SUPPLY	230 V AC - 50-60 Hz - 1A Max 100W - Standby 20W	
CABLE GLANDS	Up to 5 pcs M20 glands allows serial connection of power supply and fieldbus wiring. Threaded holes in actuator capsule. Use IP68 glands for all wires, EMC type for fieldbus wiring.	
CONTROL INTERFACE	<p>Digital: 2 DI (Open - Close) & 3 DO (Open - Closed - Alarm)</p> <p>Analogue: AI (Set position), AO (Feedback position) & DO (Alarm). 4-20 mA AI/AO signal.</p> <p>Modbus Fieldbus: Max 31 nodes per network.</p> <p>CANopen Fieldbus: Max 127 nodes per network. Fieldbus allows positioning and other extended control of actuator. Number of nodes will be limited by control system.</p>	
POSITION SENSOR	Resolution 0,39%/ 0,35° & range 360° Absolute position sensor, provides correct feedback even after a power failure.	
CONFIGURATION	USB connection to PC with Eltorque Manager 2	
CONFIGURABLE PARAMETERS	Open and Closed positions. Actuator speed, torque and valve position regions. Inverted IO or fieldbus parameters depending on control interface	
EMERGENCY AND SAFETY		
MANUAL OPERATION	Standard feature using ergonomic crank shaft. Mechanical valve position indicator.	
COVER OF HAND WHEEL	Yes, can be removed and refitted without tools. Protects mechanism against mechanical damage and ingress of foreign objects or liquids.	
NUMBER OF TURNS	≥1 for 0-100% / 0-90° valve operation	
CERTIFICATIONS/TYPE APPROVAL ²	CE-marked Type approved by DNV, Germanischer Lloyd, CCS	

¹ Configurable using Eltorque Manager software.

² Special conditions apply, check details with Eltorque agent.