

QT2500 QUARTER-TURN ACTUATOR

COMPACT QUALITY

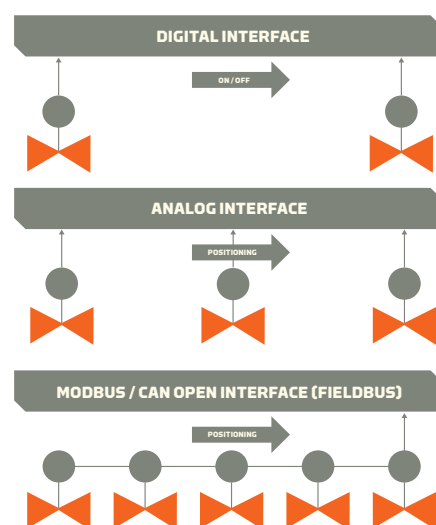
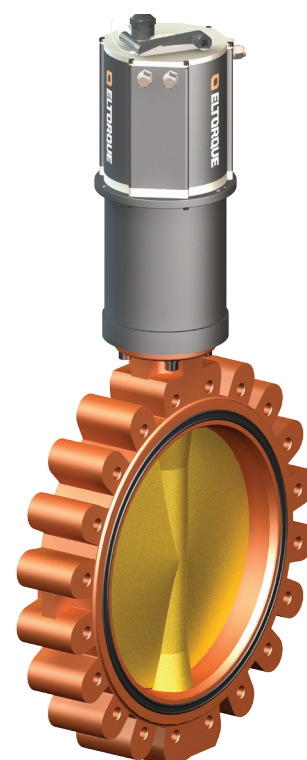
QT2500 is the largest quarter-turn actuator from Eltorque. It is suitable for butterfly- and ball valves with an operating torque of 800-2500 Nm.

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:

QT2500 1.0:

- Max torque: 2500 Nm
- Valve range: DN400-DN600
- Absolute position feedback (true feedback)
- 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



QT2500 SPECIFICATIONS

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QT2500 1.0	
MAX-MIN TORQUE ¹	800 - 2500 Nm
MIN-MAX CLOSING TIME 0-100% / 0-90°	30 - 120 sec
VALVE SPINDLE ADAPTER	SQ36 ²
VALVE FLANGE	F12 & F14 (According to ISO5211) ²
VALVE APPLICATIONS	Butterfly or ball valves with part-turn operation. Examples butterfly valves: DN400-DN600 PN16
PHYSICAL PROPERTIES	
WEIGHT	78 kg
DIMENSIONS H/W/D	583/247/273 mm
ENCAPSULATION	IP68 (5m 1hr) - Corrosion protected aluminium enclosure
COLOR	Black
OPERATING CONDITIONS	-25 - 55 °C
TEMPERATURE PROTECTION	Not designed for use on open deck of ships, outdoor close to salt water or exposure to corrosive chemicals. 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	110-240 V AC/DC - 50/60 Hz - 4A(110 V)/ 2A (240V) Max 200W - Standby 25W
CABLE GLANDS	Up to 4 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 3
CONFIGURABLE PARAMETERS	Open and Closed positions . Actuator speed, torque and valve position regions. Inverted IO or fieldbus parameters depending on control inter face
EMERGENCY AND SAFETY	
MANUAL OPERATION	Standard feature using ergonomic crank handle. Mechanical valve position indicator. Visual status indication by LED when actuator is powered
COVER OF HAND WHEEL	Can be removed and refitted without tools. Safety fuction disables motor in case of manual operation while actuator is powered.
NUMBER OF TURNS	103 for 0-100%/ 0-90° valve operation
CERTIFICATIONS ³	CE-marked, DNV and CCS type approval

¹ Configurable using Eltorque Manager software.

² Valve flange and adapter are replaced and can be customized on request.

³ Special conditions apply, check details with Eltorque agent.