

# QT250 QUARTER-TURN ACTUATOR

COMPACT QUALITY

QT250 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.

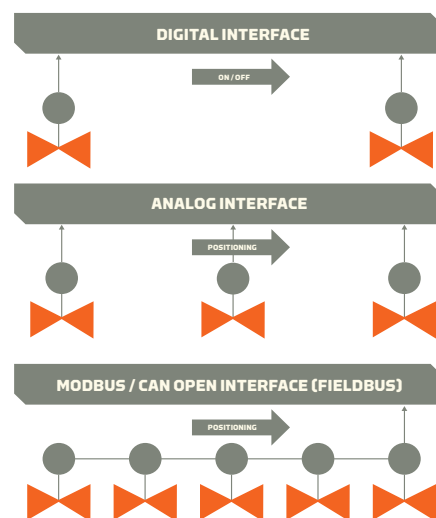


## FEATURES:

- Max torque: 250 Nm
- Valve range: DN80-DN200
- Absolute position feedback (true feedback)
- Removable cover for hand wheel protection
- IP68 enclosure
- 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

## OPTIONS:

- Outdoor & Open Deck
- EX



# QT250

## STANDARD SPECIFICATIONS

QT250 STANDARD	
MIN-MAX TORQUE <sup>1</sup>	50 - 250 Nm
MIN-MAX CLOSING TIME 0-100% / 0-90 °	13 - 60 sec
VALVE SPINDLE ADAPTER	SQ17, 38mm depth
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	229/156/209 mm
HOSING	IP68 (10m 72hr) - Corrosion protected aluminium and steel enclosure
COLOR	Black
OPERATING CONDITIONS	-25 - 55 °C Not designed for exposure to corrosive chemicals.
TEMPERATURE PROTECTION	Motor current is switched off in case of over-heating. Stator coils serve as heating elements in case of low temperatures.
ELECTRICAL AND CONTROL PROPERTIES	
POWER SUPPLY	110-240V AC/DC, 50/60 Hz, Max 200VA
CABLE GLANDS	Up to five 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.
INTERFACE OPTIONS	<b>Digital:</b> 2 DI (Open - Close) & 3 DO (Open - Closed - Alarm) <b>Analogue:</b> AI (Set position), AO (Feedback position) & DO (Alarm), 4-20 mA AI/AO signal. <b>Modbus Fieldbus:</b> Max 31 nodes per network. <b>CANopen Fieldbus:</b> Max 127 nodes per network. Fieldbus allows positioning and other extended control of actuator. Number of nodes will be limited by control system.
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
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 fixed hand-wheel. Mechanical valve position indicator.
COVER OF HAND WHEEL	Can be removed and refitted without tools. Protects mechanism against mechanical damage and foreign objects.
NUMBER OF TURNS	21 for 0-100%/ 0-90° valve operation
CERTIFICATIONS <sup>2</sup>	CE-marked Type approved by DNV, GL, CCS, ABS (PRODUCT DESIGN ASSESSMENT - PDA), BV and LR.

<sup>1</sup> Configurable using Eltorque Manager software.

<sup>2</sup> Special conditions apply, check details with Eltorque agent.

# QT250 OPTIONS

## DEVIATIONS FROM STANDARD SPECIFICATIONS

QT250 OUTDOOR & OPEN DECK	
COLOUR	Silver - reflective paint that prevents heat buildup from sunlight exposure
OPERATING CONDITIONS	-25 - 70 °C
QT 250 EX	
COLOUR	Silver - reflective paint that prevents heat buildup from sunlight exposure
OPERATING CONDITIONS	-25 - 70 °C
CERTIFICATIONS	IECEX - Certificate of conformity
EX PROTECTION	1) Temperature call T4-maximum surface temperature 135°C in given ambient temperature 2) Gas group IIC 3) Equipment protection level Gb-zone 1