

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.

Excellent control options, low cost of installation and operation and no need for maintenance make ELTORQUE actuators the obvious choice.

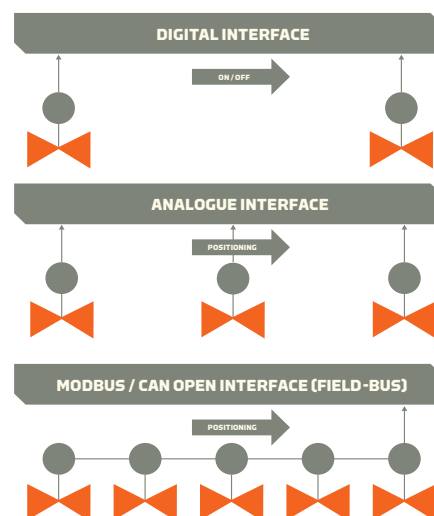


FEATURES:

- 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 ¹	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. E.g. butterfly valves: DN50-DN200 PN16
PHYSICAL PROPERTIES	
WEIGHT	12 kg
DIMENSIONS HxWxD	229x156x209 mm
HOUSING	IP68 (10m /72hr) - Corrosion protected aluminium and steel enclosure
COLOUR	Black
OPERATING CONDITIONS	-25 - 55 °C Not designed for exposure to salt water (outdoor) and 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	110-240 VAC, 50/60 Hz, Max 240VA
CABLE GLANDS	Up to five M20 glands allows serial connection of power supply and field-bus wiring. Threaded holes in actuator capsule. Use IP68 glands for all wires, EMC type for field-bus wiring.
INTERFACE OPTIONS	Digital: 2 DI (Open - Close) & 3 DO (Open - Closed - Alarm) Analogue: AI (Set position), AO (Feedback position) & DO (Alarm). 4-20 mA AI/AO signal. Modbus Field-bus: Max 31 nodes per network. CANopen Field-bus: Max 127 nodes per network. Field-bus 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 ²	CE-marked Type approved by DNV, GL, CCS, ABS (PRODUCT DESIGN ASSESSMENT - PDA), BV and LR.

¹ Configurable using Eltorque Manager software.

² 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	- Temperature call T4-maximum surface temperature 135°C in given ambient temperature - Gas group IIC - Equipment protection level Gb-zone 1

QT250 2.4 EX External construction

1. Motor and gear housing
2. Bracket for control interface
3. Control Interface Box
4. Manuel operation cover
5. Cable gland holes 5 x M20
6. Valve spindle shaft SQ17
7. Valve flange fastening holes
8. Valve position indicator
9. Valve position scale

