

# QT 250 EXD & QT800 EXD QUARTER-TURN ACTUATOR

**COMPACT QUALITY**

QT250 EXD quarter-turn actuator is suitable for medium sized butterfly and ball valves with an operating torque of 50Nm - 250 Nm, QT800 EXD quarter-turn actuator is suitable for 160Nm - 800Nm, and suitable for use in a wide variety of industrial environments. Both can be used in EX environments

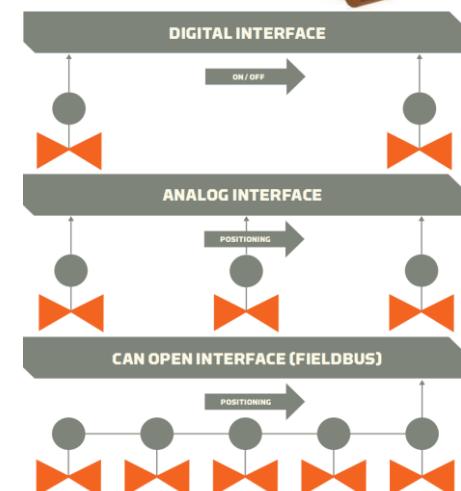
**ELTORQUE** offers a high level of precision in the control of valves. Excellent controlling possibilities, low cost of installation and operation, and no need of maintenance make ELTORQUE the solution of the future.

## FEATURES:

- Max torque: 250 Nm/800 Nm
- Valve range: DN50 - DN400
- Mechanical self-lock device locks valve position
- Absolute position feedback (true feedback)
- Removable cover for hand wheel protection
- Strong enclosure
- Configurable torque, closing time and position
- EXD certificate, Ex d e IIBT4 Gb
- Compact Ex protection design
- Maintenance free actuator
- Full valve control with positioning on IAS
- Low power consumption, high efficiency, green solution
- Manual emergency override as standard
- Quarter-turn (90°) travel, can easily be configured to an operation area within the range 0-359°
- Easy commissioning
- Flexible control interfaces for easy integration with a wide range of control systems

## FEATURES:

- CAN, Digital, Analog interface



# QT250 EXD & QT800 EXD SPECIFICATIONS

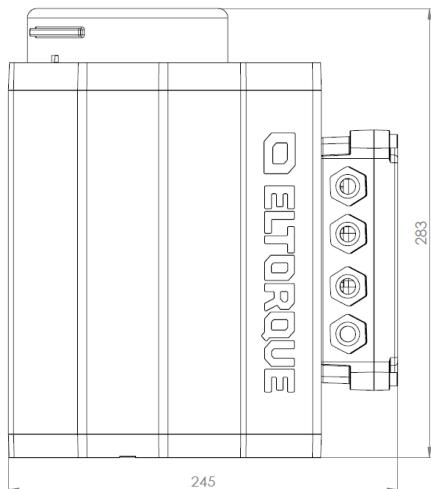
		QT250 EXD				QT800 EXD		
<b>MIN-MAX TORQUE<sup>1</sup></b>		50 - 250 Nm				160 - 800 Nm		
<b>PART NUMBERS</b>		Digital EXD250.115.15	Analog EXD250.135.10	CAN EXD250.125.1		Digital EXD800.115.15	Analog EXD800.135.10	CAN EXD800.125.1
<b>MIN-MAX CLOSING TIME 0-100% / 0-90°</b>		13 - 60 s				42 - 180 sec		
<b>VALVE SPINDLE ADAPTER</b>		SQ17				SQ27		
<b>VALVE FLANGE</b>		F05, F07, F10 (According to ISO5211)				F10, F12 (According to ISO5211)		
<b>VALVE APPLICATIONS</b>		Butterfly or ball valves with part-turn operation. Examples butterfly valves: DN50 - DN200 PN16				DN250 - DN400 PN16		
<b>PHYSICAL PROPERTIES</b>								
<b>WEIGHT<sup>3</sup></b>		15.2 kg				24.0 kg		
<b>DIMENSIONS H/W/D<sup>3</sup></b>		275 mm/160 mm/263 mm						
<b>HOUSING</b>		IP68 (10m 72h) - Corrosion protected aluminum enclosure.						
<b>COLOR</b>		Black						
<b>OPERATING CONDITIONS</b>		-25°C to 70°C Not designed for use on open deck of ships, outdoor or exposure to corrosive chemicals.						
<b>TEMPERATURE PROTECTION</b>		Motor current is switched off in case of over-heating. Stator coils serve as heating elements in case of low temperatures.						
<b>ELECTRICAL AND CONTROL PROPERTIES</b>								
<b>POWER SUPPLY</b>		110 - 240 VAC ± 10%, 50/60Hz, Max 130W, Standby: <15W						
<b>CABLE GLANDS</b>		Up to four M20 glands allows serial connection of power supply and fieldbus wiring. Threaded holes in actuator capsule. Use IP68 glands for all cables. EMC type for fieldbus wiring.						
<b>INTERFACE OPTIONS</b>		<b>Digital (Open - Close), Analog (4-20mA), CANopen (Fieldbus):</b> CanOpen: Max 127 nodes per network, allows positioning and other extended control of actuator. Number of nodes will be limited by control system.						
<b>POSITION SENSOR</b>		Resolution 0.39% / 0.35° & range 360° Absolute position sensor provides correct feedback even after a power failure.						
<b>CONFIGURATION</b>		USB connection to PC with E3C or Eltorque Manager 3.						
<b>CONFIGURABLE PARAMETERS</b>		Open and Closed positions. Actuator speed, torque and valve position regions. Inverted IO or fieldbus parameters depending on control interface.						
<b>EMERGENCY AND SAFETY</b>								
<b>MANUAL OPERATION</b>		Standard feature using fixed hand-wheel. Mechanical valve position indicator.						
<b>COVER OF HAND WHEEL</b>		Can be removed and refitted without tools. Protects mechanism against mechanical damage and foreign objects.						
<b>NUMBER OF TURNS</b>		21 for 0-100% / 0-90° valve operation				73 for 0-100% / 0-90° valve operation		
<b>CERTIFICATIONS/TYPE APPROVAL<sup>2</sup></b>		CE-marked, CCC Certificate, DNV ATEX, IECEx						

<sup>1</sup> Configurable using Eltorque E3C or Manager 3 PC software.

<sup>2</sup> Adapted flange bracket and spindle connection is required and must be ordered with the actuator.

<sup>3</sup> Weight and Dimensions do not include valve adapter.

QT250 EXD



QT800 EXD

