

QT4000

QUARTER-TURN ACTUATOR

COMPACT QUALITY

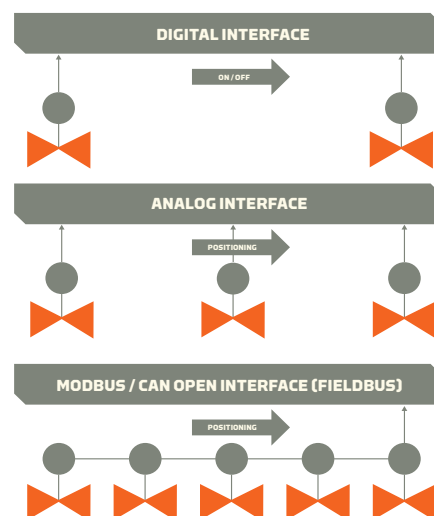
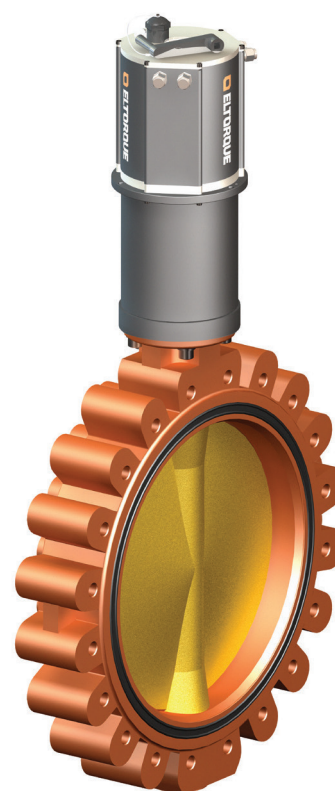
QT4000 is the largest quarter-turn actuator from Eltorque. It is suitable for butterfly- and ball valves with an operating torque of 2500-4000 Nm.

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:

QT4000:

- Max torque: 4000 Nm
- Valve range: DN600-DN800
- Patented mechanical self lock for safety reasons and less energy consumption
- Absolute position feedback (true feedback)
- Removable cover for manual operation
- 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



QT4000

SPECIFICATIONS

QT4000	
MIN-MAX TORQUE ¹	2500 - 4000 Nm
MIN-MAX CLOSING TIME 0-100% / 0-90°	45 - 140 sec
VALVE SPINDLE ADAPTER	SQ46 ²
VALVE FLANGE	F16 (According to ISO5211)
VALVE APPLICATIONS	Butterfly or ball valves with part-turn operation. Examples butterfly valves: DN600-DN800 PN16
PHYSICAL PROPERTIES	
WEIGHT	69 kg
DIMENSIONS H/W	542/247 mm
PROTECTION RATING	IP68 (10m 30min) - Corrosion protected aluminium enclosure
COLOR	Black
OPERATING CONDITIONS	-25 - 55 °C Not designed for use on open deck of ships, outdoor or 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	110-240 V AC/DC - 50/60 Hz - 4A(110 V)/ 2A (240V) Max 200W - Standby 25W
CABLE GLANDS	Up to four 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	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 Fieldbus: Max 31 nodes per network. 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.
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 ergonomic crank handle. Mechanical valve position indicator. Safety function disables motor in case of manual operation while actuator is powered. Visual status indication by LED when actuator is powered
COVER OF HAND WHEEL	Can be removed and refitted without tools.
NUMBER OF TURNS	152 for 0-100% / 0-90° valve operation
CERTIFICATIONS ³	CE-marked, DNV 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.