

# MT Series MULTI-TURN ACTUATOR

COMPACT QUALITY

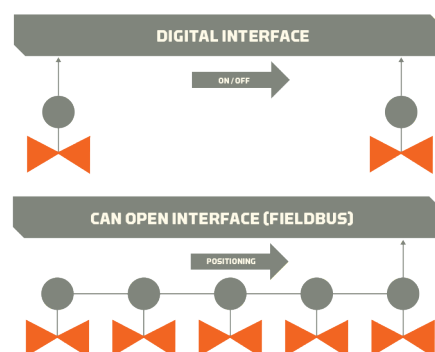
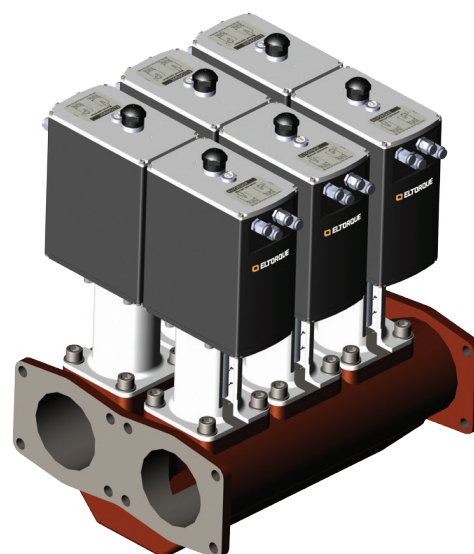
Eltorque MT Series are electrical multi-turn actuators suitable for new and retrofit installations on multiturn valves & manifolds.

**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:

### MT50 & MT150:

- Multi-turn valve positioning and control
- Connection to multi-turn valves
- Material: corrosion protected aluminium
- Easy retro-fit on manual valves
- Control interfaces: CANopen and Digital
- Configurable torque and speed
- 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
- Type approval: DnV-GL



# MT Series SPECIFICATIONS

	MT50			MT150	
APPLICATIONS	For compact valve manifolds with rising stem				
MAX TORQUE <sup>1</sup>	50 Nm			150 Nm	
MAX VALVE SPINDLE SPEED <sup>1</sup>	17 rpm			15 rpm	
VALVE SIZES <sup>2</sup>	ND50	ND80	ND100	ND125	ND150
NUMBER OF SPINDLE TURNS CLOSED - OPEN	5,5	7	8,5	14	16
MIN CLOSING TIME <sup>1</sup>	20 sec	25 sec	30 sec	60 sec	65 sec
<b>PHYSICAL PROPERTIES</b>					
WEIGHT <sup>3</sup>	10,5 kg			19 kg	
DIMENSIONS H/W/D <sup>3</sup>	31/12/20 cm			40/15/25 cm	
PROTECTION RATING	IP68 (10m 72hrs) - Corrosion protected aluminium enclosure				
OPERATION TEMPERATURE	-25 - 55 °C				
TEMPERATURE PROTECTION	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>					
POWER SUPPLY	110 - 240 VAC (50-60 Hz) or 125-230 VDC Max 120W - Standby 11W				
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	<b>Digital:</b> 2 DI (Open - Close) & 3 DO (Open - Closed - Alarm) <b>CANopen Fieldbus:</b> Max 127 nodes per network, allows positioning and other extended control of actuator. Number of nodes will be limited by control system.				
POSITION SENSOR	Absolute position sensor, provides correct feedback even after a power failure. Resolution: 4,85 °C / Maximum 13 turns				
CONFIGURATION	USB connection to PC with Eltorque Manager				
CONFIGURABLE PARAMETERS	Valve type, 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>					
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 CLOSED - OPEN	39	49	59	70	80
TYPE APPROVAL CERTIFICATES	DNV-GL: TAA000006V				

<sup>1</sup> Configurable using Eltorque 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