

MT-50

ELECTRIC MULTI-TURN VALVE ACTUATOR



OVERVIEW

NAG Marine MT Series electric valve actuators offer a high level of precision valve control. They are an ideal solution for requirements demanding accurate flow control, easy installation and low cost operation.

NAG electric valve actuators are designed to be maintenance free. All NAG Marine actuators feature completely enclosed, permanently lubricated transmissions to ensure extended reliable service in the harshest operating conditions.

FEATURES

- Precise multi-turn control
- IP68 aluminum housing (stainless steel available)
- Easy installation and/or retrofit
- User-configurable torque and speed
- Compact design
- Permanently lubricated
- Low power consumption
- Manual emergency override

MT-50 SPECIFICATIONS

Technical Data	
Torque*	7-37 ft/lbs (50 Nm max)
Valve Stem Connector**	7-17 RPM
Valve Applications	2,3,4 inch multi-turn valves (typical)
Min-Max Closing Time	2 inch: 20 sec / 3 inch: 25 sec / 4 inch: 30 sec
Mechanical	
Dimensions (H,W,D)	16, 4.5, 9 in (406.4, 114.3, 228.6 mm)
Weight	26.25 lbs (10.5 kg)
Housing	IP68 (continuous submersion, 10 m - 72 hr) corrosion resistant aluminum housing
Operating Temp.	-13° to 131°F (-25° to 55°C)
Over Temp. Protection	Current controlled
Low Temp. Protection	Stator coils used as heating element
Finish	Black
Electrical	
Supply Voltage	125-230 VDC or 110/240 VAC (50/60 Hz)
Power Consumption	Max: 120W/280 VA, Standby: 11W
Cables & Cable Glands	
Cable Glands	Up to four (4) M20 cable glands allow for serial connection of power supply and fieldbus wiring Actuator housing includes threaded mounting holes Use IP68 glands for all wires to maintain IP rating Optimized for fieldbus installation (refer to installation manual for specific requirements)
Control	
Interface Options	Digital: 2x digital input (Open & Close) 3x digital output (Open, Closed & Alarm) CANopen Fieldbus: Max. 127 nodes/network, allows positioning and other extended controls
Network Valve-Position Sensor	Absolute position sensor, provides correct feedback even after power failure
Resolution	4.85° / Maximum 13 turns
Configuration/Set-Up	USB connection to PC with Eltorque Manager v.3
Configurable Parameters	Open & Closed positions Speed, torque & valve position regions Inverted I/O or fieldbus parameters depending on control interface
Emergency & Safety	
Manual Operation	Ergonomic hand wheel, mechanical valve-position indicator, status LED when actuator is powered Safety function disables motor if actuator is operated manually while powered
Appx. Number of Turns	2 inch valve - 39 3 inch valve - 49 4 inch valve - 59
Certifications & Approvals	
Certifications	DNV-GL: TAA000006V DNV-GL: TAA000006V

* Configurable using Eltorque Manager v.3 - download free at: www.eltorque.no/downloads

** Adapted flange bracket and stem connection is required and must be ordered with the actuator. Customer must provide a valve/manifold drawing to ensure proper mechanical interfacing.