



Keeping the World Flowing
for Future Generations

CMR-250/GBX

High Torque Part-turn Actuator

The compact CMR-250/GBX has been specifically engineered for part-turn valve applications, delivering torque output of 3,500 lbf.in / 395 Nm.

The CMR-250 actuator, combined with a close-coupled GBX spur gearbox, is a part-turn solution (with multi-turn option) designed to meet demanding valve actuation requirements. It provides high torque output with low power consumption and precise continuous modulating control within compact dimensions.

Its low power consumption makes the CMR-250/GBX ideally suited to solar-powered and battery-backup systems.

The CMR-250/GBX is suitable for a wide range of applications and valve types, and is certified for use in hazardous areas with ATEX, FM, FMC and IECEx certifications.

Compact Design

Intelligent design enables high output torque to be delivered from a compact, space-efficient actuator.

Low Maintenance

Permanent lubrication minimises the need for scheduled maintenance. Units are supplied with low-temperature lubricant for reliable operation in sub-zero environments. All critical components are fully enclosed within the housing, preventing exposure to external atmospheres.

Performance Summary

Modulating Torque		Operating Time	Resolution
Minimum lbf.in (Nm)	Maximum lbf.in (Nm)		
1,400 (158.2)	3,500 (395.4)	35	0.3°



Features

- Single-phase or 24 VDC power supply options
- Low power consumption
- Accurate and repeatable position control
- Capable of continuous modulation to S9 (IEC 60034), Class D duty (ISO 22153)
- Adjustable operating speed from 50–100%
- DC brushless motor and high efficiency gears
- Permanently lubricated and maintenance-free drive train
- Built-in manual override
- 4-20 mA loop powered, feedback signal
- Hazardous area certified: ATEX, FM, FMC, IECEx
- Wide standard ambient temperature range:
EP Product: -4 to +149 °F (-20 to 65 °C)
WT Product: -22 to +158 °F (-30 to 70 °C)
- Optional integral local controls and positional display
- Optional Reserve Power Pack (RPP) for fail-to-position functionality (only for part-turn actuators)
- Communication options: Pakscan™, HART®, Profibus®, Modbus and Foundation Fieldbus® available
- Optional hardwired RIRO (Remote In Remote Out)

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Easy Set-Up

Simple, safe and intuitive set-up via an internal electronic 6-segment LCD display with push-button configuration.



Local Controls and Positional Display

The CMR-250/GBX is available with optional integral local control selectors and LED backlit display.

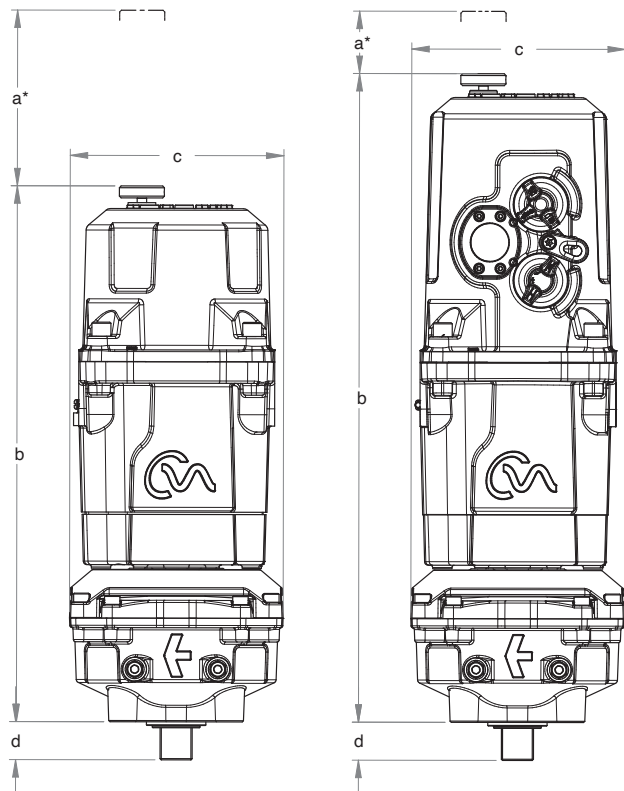


- Displays clear continuous valve position indication in 0.1% increments and critical / non-critical fault symbol icons for fast diagnostic feedback
- Control selection knobs provide Local, Stop or Remote operation mode selection and Open or Close input commands for position adjustment in local control mode
- Unauthorised operation can be prevented by locking the selector latch in place with a padlock

Dimensional Data

Model	Dimension: inch (mm)			
	a*	b	c	d
CMR-250/GBX	5.83 (148.08)	17.66 (451.10)	7.08 (179.93)	1.26 (32.00)
CMR-250/GBX + Local Controls	9.55 (242.60)	21.50 (546.10)	7.08 (179.93)	1.26 (32.00)

Dimensions with '*' indicate cover removal allowance.



Left: CMR-250/GBX

Right: CMR-250/GBX + Local Controls

Note: Drawings are for reference only. Please contact Rotork for details.

Further Information

Please contact Rotork or visit rotork.com for more information about the complete CMA Range.

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