

# rotork®

## Process Controls

### The CMR-250/GB3 choke valve actuator with high torque of 400 lbf.in / 45.2 Nm

The CMA Series of actuators delivers a series of sizes suitable for all of your process requirements.

The CMR-250 with GB3 close-coupled spur gearbox is a multi-turn, rotary actuator designed to meet the exacting balanced-choke requirements for high torque, low power consumption, modulating control in a compact space envelope. The low power consumption makes the CMR-250/GB3 ideal for solar-powered, battery back-up systems.

The CMA is adaptable to all choke valve manufacturers and has hazardous area certifications including ATEX, GOST, FM and IECEx.

#### Features

- 24 VDC option
- Low power consumption
- Can be powered by single-phase or direct current supplies
- DC brushless motor and high efficiency gears
- Permanently lubricated and maintenance-free drive train
- Accurate and repeatable position control
- Continuously modulating actuator
- 4 to 20 mA loop powered, feedback signal
- ATEX, GOST, FM, 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)
- Manual override standard
- All CMA units have the ability to adjust their speed 50-100% of operation
- Pakscan, HART®, Profibus®, Modbus and Foundation Fieldbus® available. Optional hardwired RIRO (Remote In Remote Out).



Rotork is independent of valve manufacturers allowing us to work with a wide variety of valve makers and manufacturers worldwide.

## Redefining Flow Control



## CMR-250/GB3

### High Torque Rotary Actuator



## Worldwide Support

### Adaptability

CMA actuators are easily adapted to mount on any type of valve, especially choke and other control valves.

### Expanded Performance

Greater performance and specification for production and severe service chokes where low power consumption is required. See the Performance Summary below and "Electric motor performance data for CMA Range" for more information.



### Easy Set Up

CMA provides for simple, safe and easy set up via an internal electronic 6-segment LCD display and push button configuration.

### Compact Design

The actuators provide maximum torque output relative to its small design housing.

### Low Maintenance

Permanent lubrication reduces the need for scheduled maintenance. The actuators are supplied with low temperature lubricant, allowing the units to perform in sub-zero environments. All operational parts are fully enclosed in the housing eliminating all contact with the environment.

### Global Customer Service

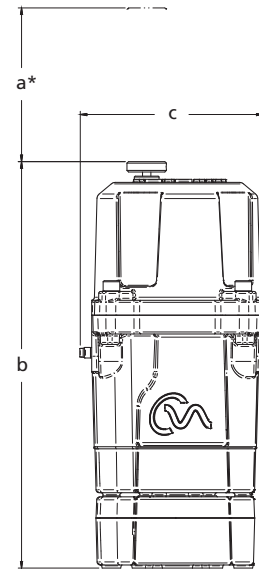
Our network of service and repair facilities around the world is ready to meet your needs day and night with on-site support, spare parts, equipment maintenance programs as well as retrofit to existing valve and mounting solutions.

### Quality Solutions

Rotork actuators are known throughout the world for their quality and dependability. These solutions are part of the portfolio of products redefining flow control that has helped customers maintain operations for more than 50 years.

### CMR-250/GB3 Rotary Actuator

| Dimensions inches (mm) |                   |                  |
|------------------------|-------------------|------------------|
| a                      | b                 | c                |
| 5.83<br>(148.08)       | 15.41<br>(391.40) | 6.93<br>(176.10) |



Dimensions with '\*' indicate cover removal allowance.

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

### CMR-250/GB3 - Performance Summary

| Min Torque<br>lbf.in (Nm) | Max Torque<br>lbf.in (Nm) | Speed<br>RPM | Total turns<br>available               |
|---------------------------|---------------------------|--------------|--|
| 160 (18.1)                | 400 (45.2)                | 5.8          | 90° to 200 turns in<br>3.2° increments |

Visit [www.rotork.com](http://www.rotork.com) for more information about the complete CMA Range and download the following:

- CMA Brochure
- CMA Flyer
- Electric motor performance data for CMA range

A full listing of our worldwide sales and service network is available on our website.

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