rotork®

Keeping the World Flowing
for Future Generations

CMA Range

Linear, part-turn and multi-turn control valve actuators

The CMA range delivers precise position control and continuous modulation for a variety of linear, part-turn and multi-turn control valve and pump applications. They can also significantly reduce emissions compared to equivalent pneumatic actuators and the necessary infrastructure required to support them.

CMA actuators can be optimised for the specific application with the addition of local controls, a positional display and a Reserve Power Pack for fail-to-position functionality.

HART COMMUNICATION PROTOCOL · Pakscan™ · Modbus® · PROFIBUS · RIRO · FOUNDATION · DeviceNet

Features and Benefits

- Accurate and repeatable position control with up to 0.1% accuracy
- All electric solution for linear, part-turn and multi-turn control valve and pump applications
- Explosionproof to international standards
- Less than 1 watt standby power
- Optional Reserve Power Pack (RPP) for fail-to-position functionality
- Adjustable speed control
- Brushless DC motor for reliable, accurate, S9 / Class D continuous modulation capability
- Encoder technology for dependable position measurement
- Suitable for mounting in any orientation
- Built-in HMI allows for quick and simple setup
- Permanently lubricated, maintenance-free drive train
- Zero stick slip during operation
- Optional integral local controls and positional display
- Suitable for 1-phase or DC power supplies
- Compatible with a wide variety of fieldbus, hardwired and analogue site systems

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Performance Summary

Speed or operating time values shown below are at 100% speed setting. Speed can be reduced to 50% in 1% increments.

CMA actuators are suitable for S9 (IEC60034) / Class D (EN15714-2) operating duty.

The rated force (thrust or torque) for each size of actuator is detailed below. Operating time tolerance +/-10%.

CML and CMQ self locking units can resist backdriving forces from the valve up to 125% of rated load without movement. CMA resolution is up to 0.1%.

CML: Linear Actuator

Model	Min Modulating Thrust		Max Modulating Thrust		Max Seating Thrust*		Max Speed		Max Stroke	
	lbf	N	lbf	N	lbf	N	inches/sec	mm/sec	inches	mm
CML-100	60	267	100	445	150	667	0.25	6.35	1.5	38.1
CML-250	150	667	250	1,112	375	1,668	0.13	3.18	1.5	38.1
CML-750	450	2,002	750	3,336	1,125	5,004	0.13	3.18	2.0	50.8
CML-1500	900	4,003	1,500	6,672	2,250	10,009	0.23	5.72	4.5	114.3
CML-3000	1,800	8,007	3,000	13,345	4,500	20,017	0.23	5.72	4.5	114.3

Note: CML-750 operating speed may reduce when operating below -25 °C (-13 °F).
12 VDC CML-1500 and CML-3000 may reduce operating speed to 10% in order to maintain operating thrust through stroke.

CMQ: Part-Turn Actuator

Model	Min Modulating Torque		Max Modulating Torque		Max Seating Torque*		CMQ High Speed Operating Time	CMQ Self Locking Operating Time
	lbf.in	Nm	lbf.in	Nm	lbf.in	Nm	secs	secs
CMQ-250	150	16.9	250	28.2	375	42.4	5	10
CMQ-500	300	33.9	500	56.5	750	84.7	7.5	15
CMQ-1000	600	67.8	1000	113.0	1,100	124.3	11	22

Note: CMQ low speed units are self-locking up to 125% of rated load. CMQ high speed units are not self-locking.

* **Seating Torque and Thrust** – Some applications require tight seating of the valve in the close position. The CMA has a selective seating capability. The seating torque/thrust values shown for CML and CMQ are the forces available to close a valve tightly at the end of travel. The seating torque/thrust option can be selected and configured during setup (at "close action" selection, choose "torque" or "thrust" as applicable).

CMR: Multi-Turn Actuator

Model	Min Torque		Max Torque		Max Speed	Min Stroke	Max Stroke
	lbf.in	Nm	lbf.in	Nm	RPM	turns	turns
CMR-50	20	2.3	50	5.6	11	0.25	320
CMR-89	35.6	4.0	89	10.1	24	0.25	320
CMR-100	40	4.5	100	11.3	10	0.25	320
CMR-125	50	5.6	125	14.1	18	0.25	320
CMR-200	80	9.0	200	22.6	5	0.25	320
CMR-250	100	11.3	250	28.2	10	0.25	320

For further information, refer to CMA Range brochure PUB094-001.

For detailed CMA Range information refer to PUB094-001.

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