

## *Part-turn actuators* **Generation .2**



**SQ 05.2 – SQ 14.2**  
**Expanding Possibilities**

## **Think ahead**

*AUMA part-turn actuators generation .2 will be available in the near future. Get informed now and focus on the future.*

### **The new generation of electric part-turn actuators and actuator controls**

AUMA actuators and actuator controls are widely used in process plants throughout the world. Their sophisticated engineering and proven reliability guarantee precise and permanent service – for any application.

Within the new generation .2 product line, AUMA introduce a significant further development for the increasing demands in all types of process plants – from the water industry and energy sector to the oil and gas industry. AUMA part-turn actuators of generation .2 decisively expand your options. They

warrant highest precision and repetitive accuracy for butterfly valves or ball valves – as modulating or open-close actuators. The modular design further facilitates fast, cost-efficient and individual configuration as well as permanent service friendliness supported by various interfaces.

Convince yourself of the many advantages of generation .2 – we look forward to further provide you with detailed information.

## **Improve your process – AUMA Generation .2**







### Part-turn actuators Generation .2

- : Optimised modulating behaviour
- : Extended operating time range
- : Simplified commissioning and service
- : Long service life and outstanding reliability
- : Identical operation concept to multi-turn actuators of generation .2
- : Flexible mechanical adaptation to suit different valve types

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### AC 01.2 controls Generation .2

- : Accurate programming and setting, wireless or directly at device display
- : User-friendly, intuitive operation, in more than 30 languages
- : Function extension updates can be made wireless via Bluetooth
- : Comfortable operation, setting, diagnostic and storage of all actuator data via AUMA ToolSuite using laptop or PDA.

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### SQ 05.2 – SQ 14.2 with AC 01.2

- : Torques: 50 – 2,400 Nm
- : Operating time ranges for 90°: 4 – 100 s
- : High IP enclosure protection
- : Explosion proof version available
- : Excellent corrosion protection
- : Parallel interfaces to DCS:
  - up to 10 binary inputs
  - up to 12 output contacts
  - up to 2 analogue inputs and outputs
- : Interfaces to fieldbus systems:
  - Profibus DP-V2, Modbus RTU and others
- : Electrical connection via AUMA plug/socket connector with enlarged terminal compartment/cable entries

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### **Expand your possibilities**

AUMA part-turn actuators of generation .2 are available for open-close and modulating duty – for any type of electrical connection. The torque range is extended at both upper and lower limits due to an additional actuator size.

### **Precision and control accuracy**

The backlash-free AUMA motor coupling paired with the higher setting accuracy of the control unit improve precision repetitivity and positioning accuracy. The true torque measurements are more reliable and flexible. For example: stable tripping torque throughout the complete service life, reliably reaching the maximum torque and controlling smaller tripping torques.

### **Flexibility and adaptation**

Flexible adaptation of nearly any valve type via the valve connection of generation .2 as standardised hollow shaft/coupling solution.

### **Safe operation**

End stops as stop screws cannot block and guarantee highest safety. Simple and reliable operation of spring-loaded change-over mechanism, including signalisation via microswitches.

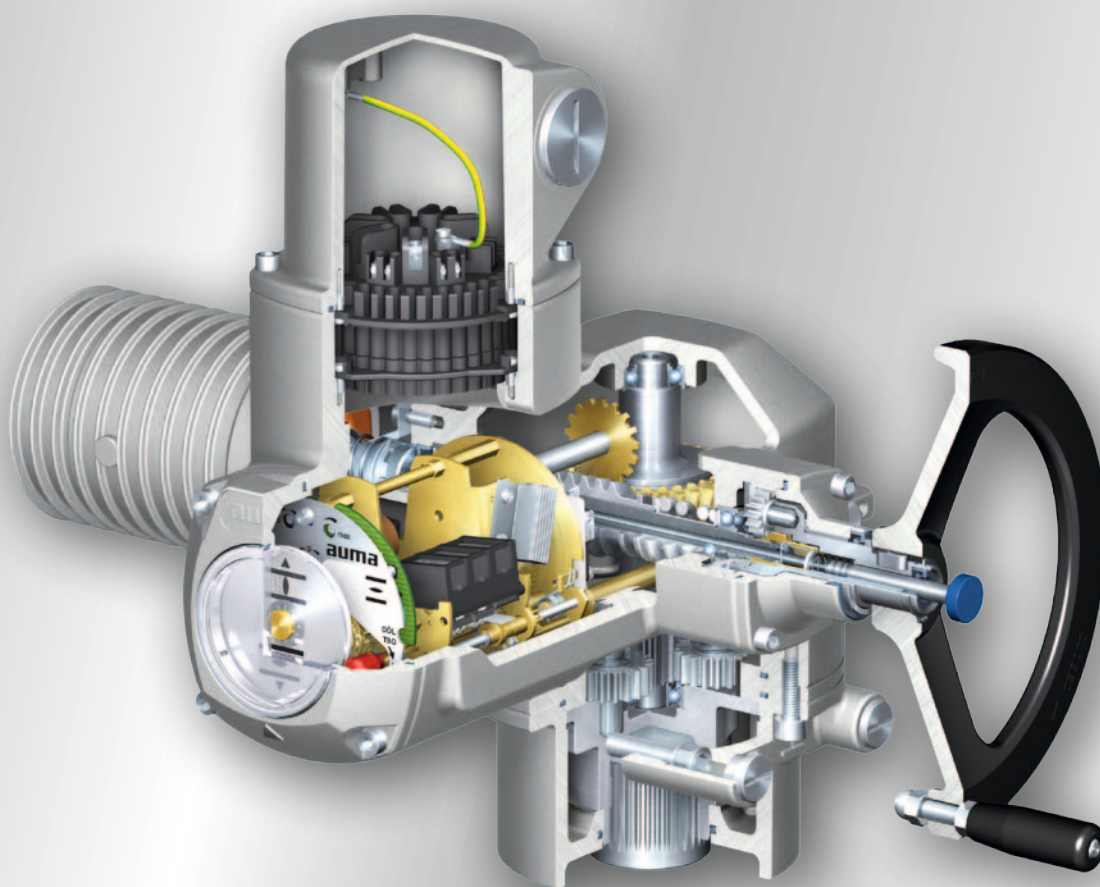
### **Permanent reliability**

Material selection, design and new manufacturing processes significantly increase service life and safeguard your investments. Standard powder coating allows higher corrosion protection category than available market standards.

### **Intelligent diagnostic functions and sensor system**

Temperature and vibration sensors monitor service parameters and facilitate preventive service. In combination with signals relating to maintenance, function and failures, operation safety is significantly increased and failures can be prevented.

## ***SQ .2 part-turn actuators for open-close and modulating duty***





AUMA NORM ...



... with AM integral controls

... with AC integral controls



## Modularity – controls for any automation task

AUMA part-turn actuators can be integrated into any DCS concept. The options include direct processing of end position signals as well as fieldbus communication within a Plant Asset Management System. For this purpose, actuators can be supplied with or without AM or AC integral controls.

### Variable assembly

Actuators and controls can be mounted separately using the AUMA wall bracket to ensure optimum results even under space constraints or in places difficult to access.

### Easy operation

Clear presentation of all operation and configuration options on a large and easy-to-read display. User-friendly menu navigation, in all universal languages. Operation via local controls or wireless connection via AUMA ToolSuite.

### Diagnostic and operating data logging

All parameter and diagnostic data can be directly read out. Torque curves are recorded and displayed. Time-stamped history for setting, operation process and faults can be accessed at any time. All events and signals are classified according to NAMUR recommendation NE 107.



### Perfect connection

In parallel communication, up to 10 digital inputs and up to 12 output contacts offer a comprehensive interface to the DCS. AC 01.2 controls offer interfaces to all conventional fieldbus systems, including Profibus DP-V2, and support the concepts for smooth device integration into the DCS, such as e.g. FDT/DTM.

### Enhanced applications

Undervoltage conditions up to –30 %.

Ambient temperatures between –60 °C and +70 °C.



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