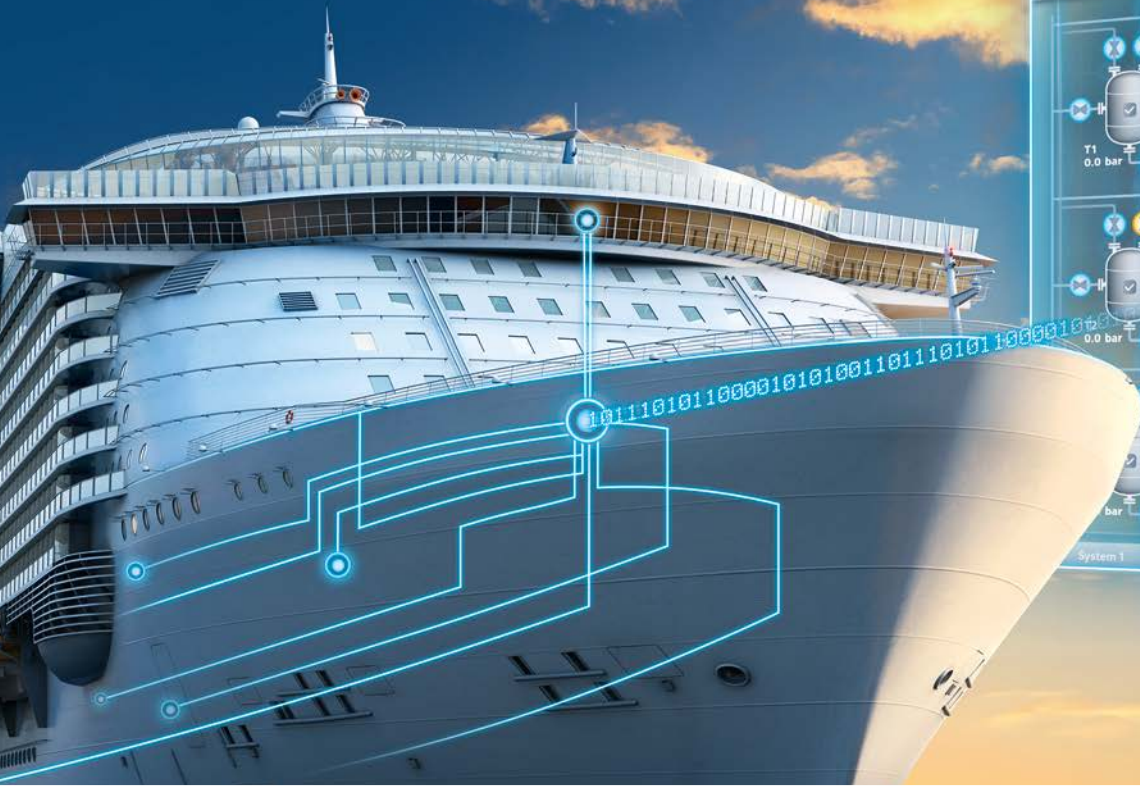


auma®



# ELECTRIC AUTOMATION SOLUTIONS

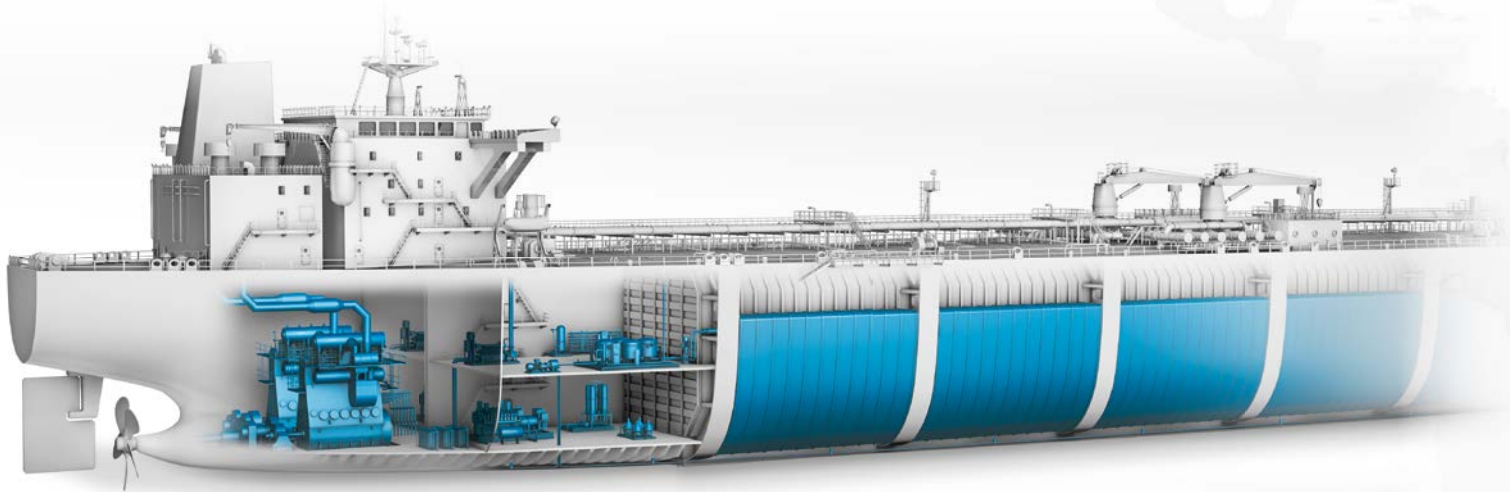
for valves on civil vessels

# AUMA SOLUTIONS FOR THE SHIPBUILDING INDUSTRY

- > Maximum control flexibility
- > No additional operation media such as compressed air and hydraulic oil required
- > Ensuring robust and reliable operation of existing systems

## Your benefit – our experience

AUMA has been established as one of the leading manufacturers of electric actuators for more than 60 years. We have been supplying actuators and solutions for the military and civil shipbuilding industry for more than 40 years. All product generations are compatible. Safety at its best.





### **Your benefit – solutions fit for the future**

With innovative actuator solutions and operation concepts, AUMA is at the forefront of valve automation. AUMA will find suitable solutions to new requirements.

### **Your benefit – maximum availability**

AUMA actuators and controls are designed to withstand hostile environmental conditions with long lifetimes. Premium quality standards warrant reliability and maximum availability.

### **Your benefit – global availability**

The global presence of AUMA warrants the utmost availability and comprehensive service. The AUMA service specialists are active all around the globe and assist you in creating maintenance concepts during commissioning and provide product training.

60 years experience in development, production and distribution of electric actuators. This is an excellent background for redesigning automation of valves to tomorrow's standards. Considering current developments and the future in digitalisation.

AUMA has broken new ground.

The result:

**Compact, flexible and cunning,**  
the FOX is the perfect namesake.

# PROFOX

for smart valve  
automation of  
today and tomorrow



## smart means sustainability

- > Low standby consumption
- > Premium efficiency
- > Long lifetime
- > High availability thanks to predictive maintenance



## clarity through ingenuity

- > Simple installation
- > Intuitive commissioning
- > Clearly visible status indication
- > Commissioning also via App



## flexibility through versatility

- > Optimising the positioning speed for each phase of the travel (operation profiles)
- > Precise positioning
- > Gentle approaching of end positions



# PROFOX BENEFITS



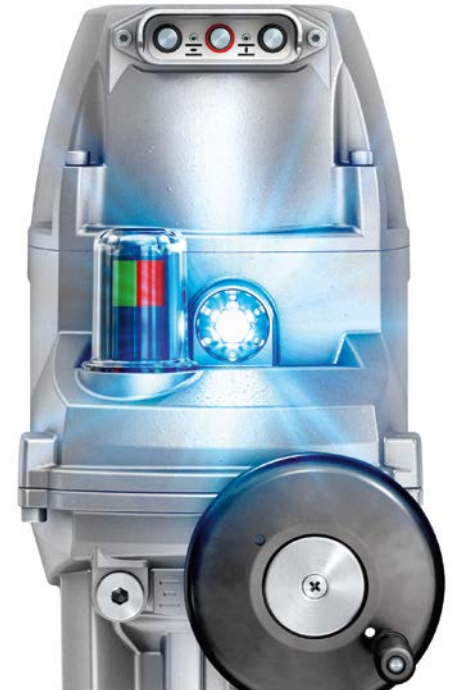
## universal use through modularity

- > Automation of all valve types
- > Certified for potentially hazardous atmospheres
- > Homogeneous operation scheme
- > Wide performance range with just a few sizes



## reliability through resistance

- > Engineered & made in Germany
- > Rugged metal housing
- > High enclosure protection
- > Wide temperature range
- > Premium corrosion protection



## ADVANTAGES AT A GLANCE

- > **Highest reliability and safety during operation**  
Thanks to long standing experience and proven products
- > **Low investment cost**  
Based on simple planning and short installation times
- > **Resistance in harsh environmental conditions**  
Certification of highest enclosure protection
- > **Long lifetime**  
Designed for decades of operation and support
- > **Appropriate for many vessel systems**  
Applications like bilge systems, fire protection, ballast water systems, fuel supply or ventilation systems
- > **Versatile control options**  
I/O and fieldbus connections
- > **Bluetooth connection possible**  
Wireless parametrisation
- > **Modular design**  
Fast adaptability to new mounting situations
- > **Any mounting position**  
Compact design and low weight
- > **Simple and safe single-hand emergency operation**  
The handwheel is easy to reach and ensures safety in case of an emergency
- > **Valve protection by soft start and soft stop function**  
Thanks to variable motor speeds
- > **Energy efficiency thanks to low power consumption**

**PROFOX-L**

**Linear actuators**

Operating forces of  
0.8 kN to 15 kN



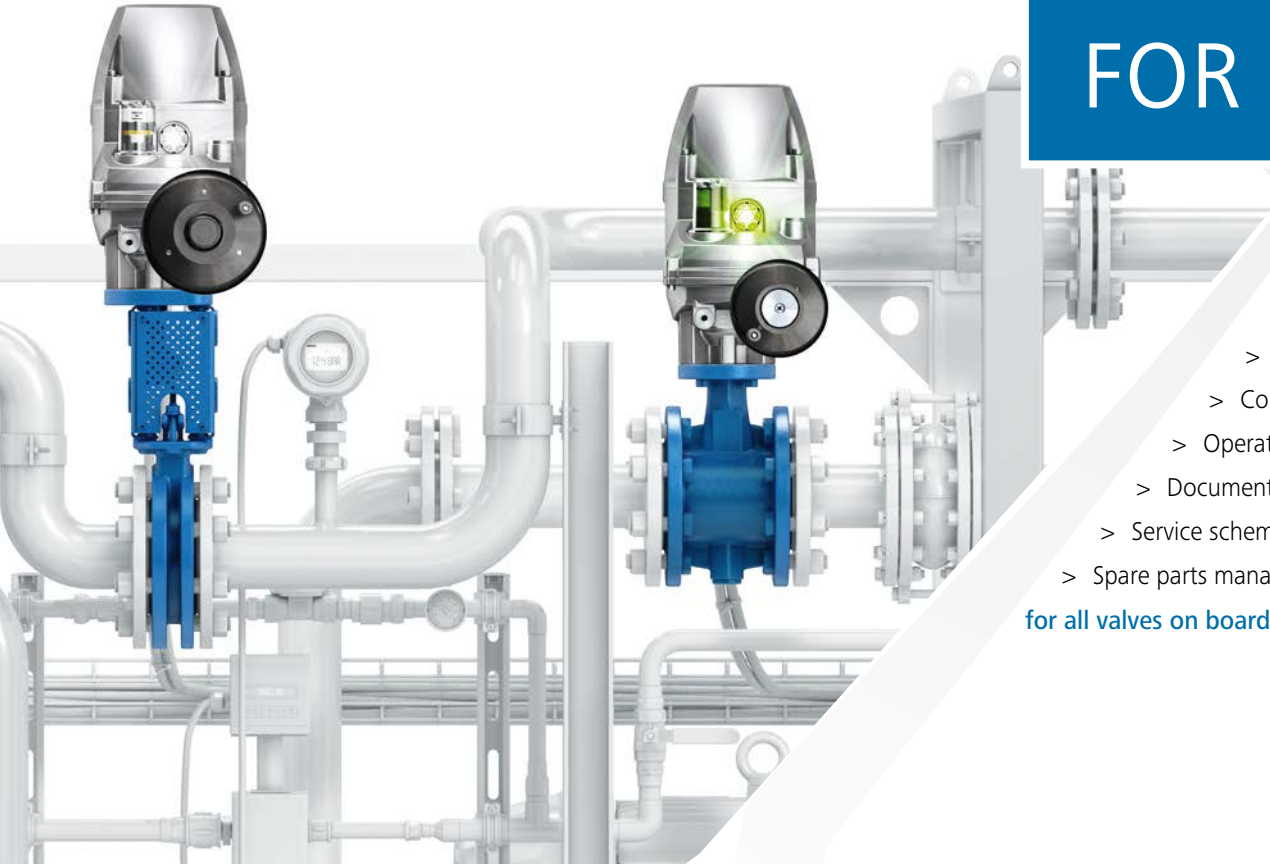
**PROFOX-M**  
Multi-turn actuators  
Torques between  
10 Nm and 100 Nm

**PROFOX-Q**  
Part-turn actuators  
Torques between  
32 Nm and 600 Nm

# PROFOX – A PARTNER FOR LIFE

## Harmonised:

- > Automation
  - > Installation
  - > Device integration
  - > Commissioning
  - > Operation
  - > Documentation
  - > Service schemes
  - > Spare parts management
- for all valves on board.



## FLEXIBLE AND RESISTANT

Foxes are adaptable animals.

PROFOX is an adaptable actuator.

This applies in particular to the application conditions.

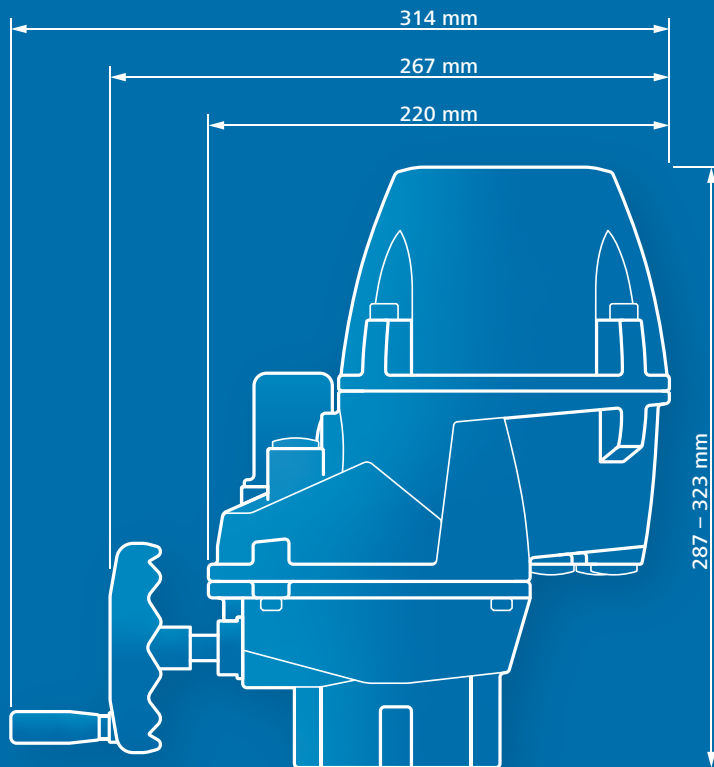
### Supply voltage virtually as desired

PROFOX actuators are equipped with a wide range power supply unit, which automatically adapts to the supply voltage. For 1-phase AC voltages between 100 V and 240 V, irrespective if 50 Hz or 60 Hz, for DC voltages between 180 V and 300 V. In these ranges, the actuator has a good tolerance against voltage peaks and maintains speed and torque at a constant level.

In addition, PROFOX is available for 24 V DC voltage supply.

### Compact

Premium performance with compact design, allowing any desired mounting position. Allows wide tolerances for planning and installation.



Wide temperature range



+70

-30





nge

°C

°C

Highest enclosure protection

IP67

IP68

Premium corrosion protection

C5-M/C5-I

According to EN ISO 12944-2

# PROFOX – PERFECTLY ADAPTABLE



Explosion-proof variant  
with PROFOX-X

Ex db h IIC T4 Gb

Ex h tb IIIC T130°C Db

DEKRA 21ATEX0092 X  
&  
IECEx DEK 21.0058X

# ELECTRIC ACTUATORS MADE FIT FOR THE FUTURE

AUMA actuators are suitable for the applications of today and tomorrow.

Installation – Commissioning – Lifetime operation: Basic design and well-engineered functions ensure long, safe and economic PROFOX operation without incidents.

## CORALINK

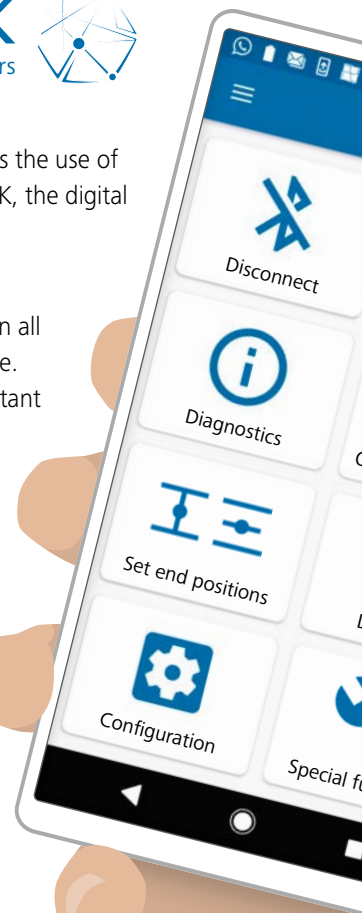
Expert care for your actuators



### Fit for the digital future

The intelligent PROFOX allows the use of the full potential of CORALINK, the digital ecosystem by AUMA.

CORALINK provides support in all phases of the product lifecycle. Modules like the AUMA Assistant App, AUMA CDT and AUMA Cloud help to save resources and to optimise availability and lifetime.



# PROFOX – ONE FOR A LIFETIME

## Non-intrusive

Thanks to the AUMA Assistant App, commissioning and control from remote is made easy – without opening the device.

Connection to PROFOX is made via Bluetooth with password protection.



## Intuitive

The FOX-EYE can be individually configured and allows for clear status indication at a glance – even when light is scarce.



# SIMPLE RECORDING OF OPERATING DATA

The AUMA Commissioning and Diagnostic Tool (CDT) is a proven and long-standing software tool for configuration of AUMA actuators and effectively record diagnostic data.

- > Configure, analyse and compare parameters
- > Motor analysis like uptime, maximum starts per hour and running time
- > Assess characteristics to detect high strain and prevent wear

## Everything at a glance

The AUMA CDT is the perfect tool for swift recording of all relevant operating data.

## Intuitive operation

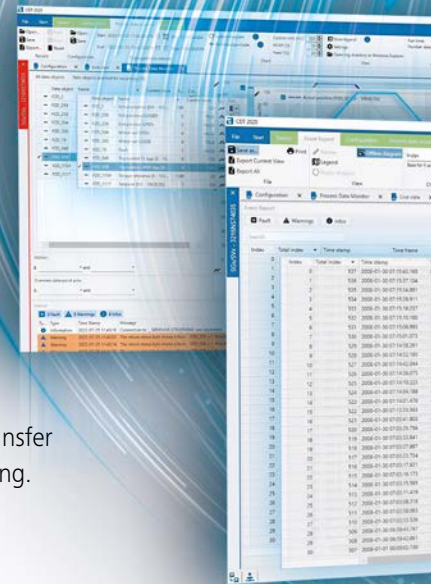
Configure your AUMA actuators to suit your requirements.

## Communication expert

Comfortably export and transfer all data for further processing.

## Device-specific

Find all important documents for your actuator indicating the serial or order number.



# AUMA CDT

## Standardised

AUMA devices are designed to satisfy international standards.

This includes the interfaces to the valve as well as the integration into the DCS. AUMA exclusively uses open data protocols. AUMA actuators, and this includes PROFOX, are compatible in terms of communication to all other field devices.



# VALVE REMOTE CONTROL SYSTEM

Motorised valve systems with electric operation are increasingly deployed in vessels.

Fieldbus technology in particular gains wider importance and offers many benefits and options:

- > Implementation of new and modern communication protocols
- > High data transmission rates and valuable information about actuators and motor operated valves (MOV)
- > Live operating data and system diagnostics
- > Remote monitoring for digital twin function
- > Low installation cost
- > Low installation time
- > Standardised fieldbus systems

## Auto-controlling system

Supports IMO requirements for Safe Return to Port (SRTP).

## Flexible and easy to integrate into networks

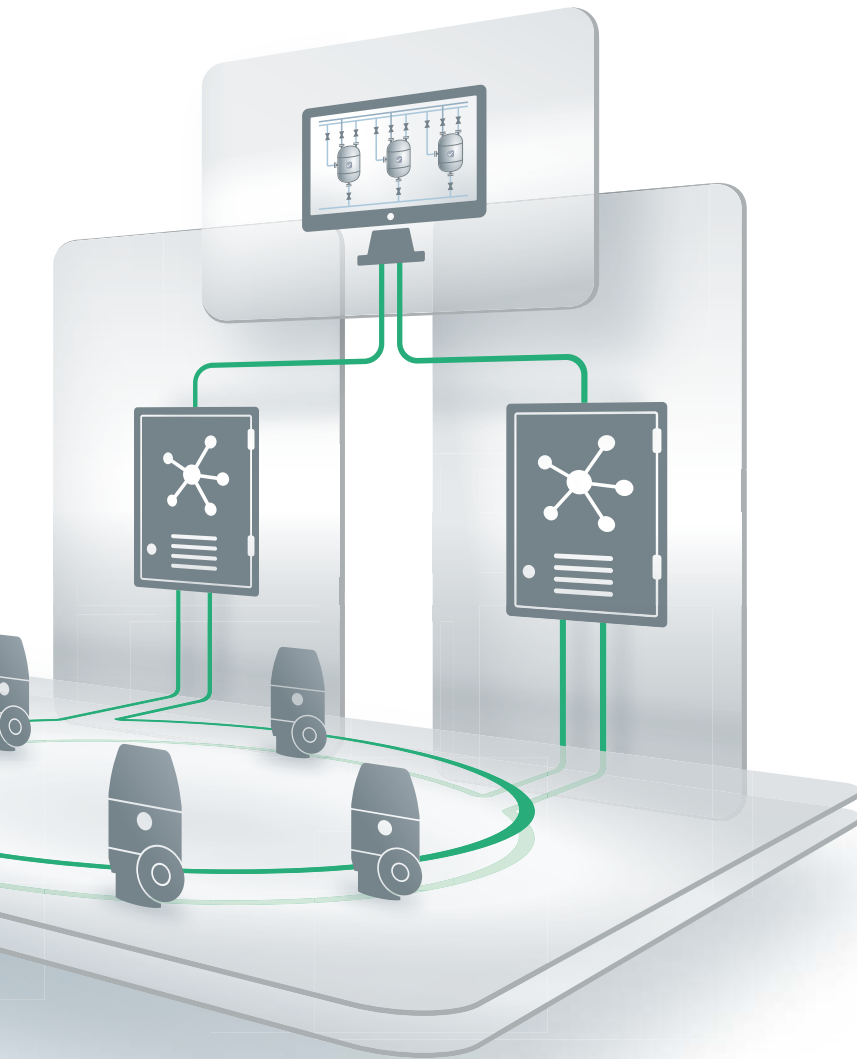
Potential for enhancement at any time.

## Redundancy design on several system levels

Power supply, fieldbus, communication and control cabinets of the VRCS designed as two separate units.



# VRCS BY AUMA



## High availability of operating and device data

Allows for intelligent and predictive maintenance leading to maximum plant availability.

## Compatible

Loop, daisy-chain and point-to-point configuration possible.

# RELIABILITY AND SAFETY GUARANTEED

## The cooperation with AUMA

- > Provides valve automation in compliance with submitted specifications
- > Assures safety for design and implementation for the consultant on the basis of certified interfaces
- > Guarantees the plant operator maximum availability by a global local service assisting during commissioning and providing product training
- > Offers customer-specific solutions like linking MOVs (VRCS) in compliance with the rules of SOLAS as well as provision of actuator data for the digital twin or Industry 4.0.





# SAFE RETURN TO PORT

## Safety is our mission

The regulations for the Safe Return to Port (SRTp) are firmly established within the worldwide applicable SOLAS convention, IMO decision MSC.216(82):

- System redundancies
- Safeguarding the functions of vital systems after an accident
- Safe closing of all hull valves

The AUMA portfolio facilitates the implementation of the regulations and achieves the objective of increasing the safety of passengers, the crew and the vessel.



## PREMIUM SERVICE

Besides installation, also maintenance and repair are taken care of by our certified expert staff.

### You are in the best hands with AUMA Service.

We pair our outstanding products with excellent service. Thanks to our comprehensive service portfolio, our AUMA service experts ensure that your actuators perfectly meet their tasks on board at any time.

## EXPERTISE IN YOUR NEIGHBOURHOOD

AUMA has a global sales and service network with subsidiaries and representative offices in more than 70 countries. Wherever our help is needed – We will be there at any place on earth to provide fast and competent assistance by our experienced AUMA experts.



### FIELD SERVICES

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Mounting & installation



Troubleshooting & corrective actions



Commissioning



Repair & corrective maintenance



### SUPPLY SERVICES

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Spare parts & accessories



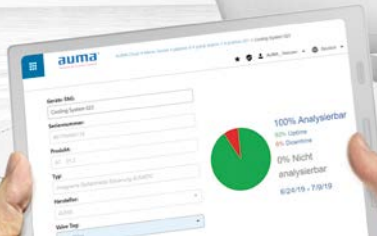
### CERTIFIED & SPECIAL SERVICES

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Fieldbus & communication

# SERVICE WORLDWIDE



# auma®

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