

auma®

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



- > 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 explosive atmospheres
- > Homogeneous operation scheme
- > Wide performance range with just a few sizes

## reliability through resistance

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



## ONE SOLUTION FOR BUTTERFLY, BALL/PLUG AND GLOBE VALVES

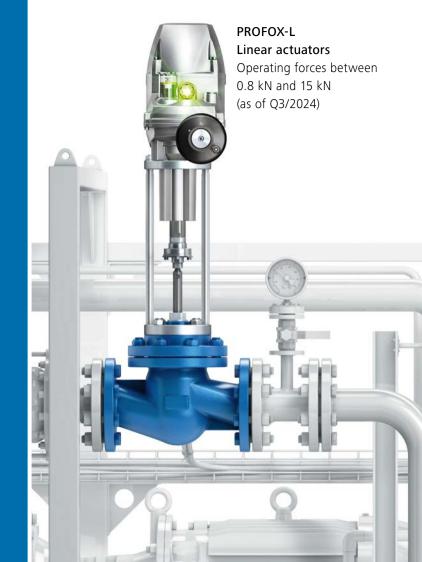
Compact actuators – intelligent functions – a platform concept

for tailored automation solutions at numerous levels:

- > Valve:
  - PROFOX is available as multi-turn, part-turn or linear actuator Wide performance range with just a few sizes
- > DCS:
  - PROFOX masters a large variety of communication technologies and supports easy integration
- > Applications:
  - In all types of process plants as indoor or outdoor application, also under severe climatic conditions. Any mounting position Certification according to IECEx qualifies PROFOX for use in potentially explosive atmospheres
- > Future and digitalisation:
  PROFOX can be adapted to new requirements via firmware upgrade
- > **Compact**Ideally suited for space constraints e.g. in skids



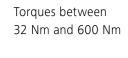




#### PROFOX-M Multi-turn actuators

Torques between 10 Nm and 100 Nm

## PROFOX-Q Part-turn actuators



# PROFOX – A PARTNER FOR LIFE



#### Harmonised:

- > Automation
- > Installation
- > Device integration
- > Commissioning
- > Operation
- > Documentation
- > Service schemes
- > Spare parts management

for all valves at one site.

## **FOX-EYE**









Each PROFOX is equipped with a centrally located LED: The FOX-EYE.

Providing clearly visible information about both actuator and valve status.

Blinking or continuously illuminated, the FOX-EYE provides unambiguous signals thanks to different colours. Example:

- > White permanent light: PROFOX in standard operation
- > Blue permanent light: Bluetooth connection active

The FOX-EYE indication scheme can be configured by the user via App as required

The optional position indication allows clear display of the current valve position.

PROFOX-Q Part-turn actuator



PROFOX-M Multi-turn actuator









## PROFOX – CLEAR COMMUNICATION

## FOX-EYE and status indication

- > Clearly visible
- > Unambiguous symbols
- > Clear display scheme

## AUTOMATION MADE EASY THANKS TO PROFOX

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

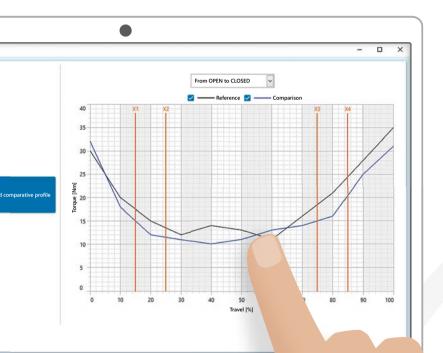
The PROFOX diagnostic functions provide solutions for fast fault analysis and remedy.

Increase availability thanks to PROFOX: Regular control of operating parameters shows deviating and taxing operating conditions which could be avoided. The timely fault remedy avoids failures and additionally extends the PROFOX lifetime.









# PROFOX – A SOLUTION FOR LIFE

#### Torque requirement control

You may record a torque profile at any time. This is compared with a reference profile recorded in PROFOX.

A warning signal clearly indicates increased loads. The profile allows drawing conclusions on the valve status.



#### **Flexible integration:**

From binary signals right through to Industrial Ethernet

Both are possible with PROFOX – and any other schemes

#### Commissioning:

- > via push buttons or
- > via App by means of Bluetooth interface.

Transmission of operation commands and feedback signals:

- > via 24 V or 4 20 mA signal or
- > as digital data via fieldbus or Industrial Ethernet









#### 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













Overview

nect

change

Operation function

Special functions



The Commissioning and Diagnostic Tool (CDT) is the variant to be used on laptops.

Connection to PROFOX via password-protected

Bluetooth connection

## PROFOX – DIGITAL SCALING

#### Modular enhancement

e.g. for including interface boards for transmitting additional signals or for

redundant communication structures.



### **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

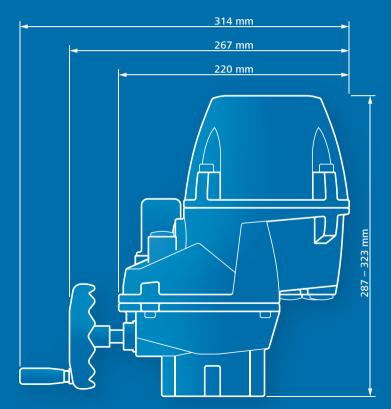
PROFOX actuators are equipped with a wide range power supply unit,

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.













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Highest enclosure protection

IP67 IP68 Premium corrosion protection

C5-M/C5-I

According to EN ISO 12944-2





Made in Germany

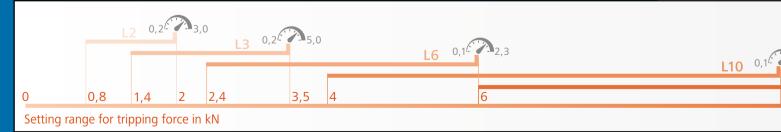
### PROFOX-Q PART-TURN ACTUATOR — torques and operating times



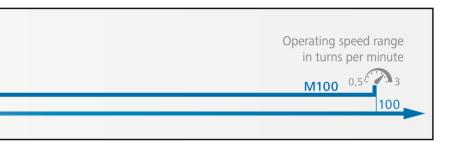
### PROFOX-M MULTI-TURN ACTUATOR — torques and positioning speeds



## PROFOX-L LINEAR ACTUATOR— positioning forces and positioning speeds (as of Q3/2024)



# Positioning range in seconds 45 Q600 Q600





## PROFOX – BASIC DATA

Open-close and modulating duty

Limit and torque seating can be configured

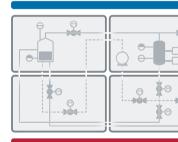
Operating time/operating speed fine-tuning possible

Standardised valve attachments

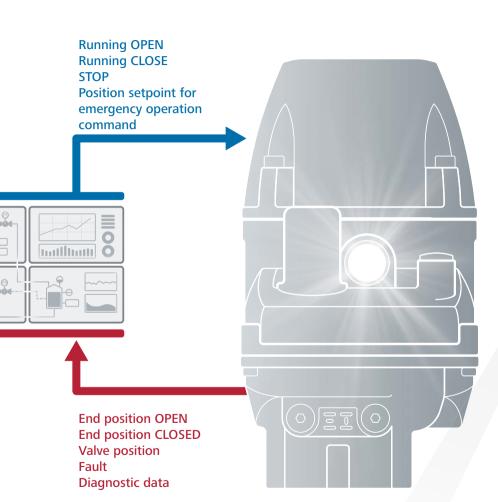
### **PROFOX FACTS**

- No Positioning of valves depending on DCS operating commands and
- y setting specifications.

- either parallel or serial (fieldbus/Ethernet).
- ► ✓ Equipped with two independent automatic seating facilities:
- 7.5
- > Limit seating: Tripping once the end position is reached.
- > Torque seating: Tripping once the torque limit value within the valve is reached
- permanent overload protection. Can also be used for conventional end position tripping.
- Note: Neady for both duties: OPEN CLOSE duty and modulating duty.
- 7.5
- > OPEN CLOSE valves: Approaching the end positions.
- > Modulating valves: Flow control for valve position.
- ensuring premium positioning accuracy and soft valve management.
- ► ✓ Safety functions ensure predictable valve behaviour in case of functional devia-
- 🏋 fions, e.g. for signal loss.
- ► 1 Handwheel in particular for emergency operation in case of power failure. Easier
- device setting during commissioning.



DCS



## PROFOX – BASICS

#### Standardised

AUMA devices are designed to satisfy international standards.

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

## KNOWING WHAT IS NEEDED!

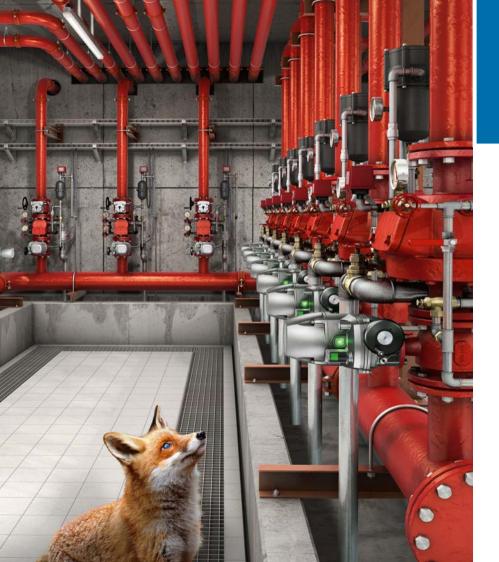
The key element of our long-standing experience:

We have identified your exact requirements!

PROFOX actuators are optimised for the deployments like:

- > In water industry installations, in particular small units for water supply.
- > In energy sector installations like CHP or for district heating.
- > In ventilation systems in the traffic sector like tunnels.
- > In generation and distribution of heating or cooling energy in industrial processes.
- > On vessels for bilge systems, fire protection, ballast or fuel.
- > For pump adjustment or,
- > as shown, in sprinkler systems.





## PROFOX – ON MISSION

All documents for detailed product selection are available on our website:

www.auma.com



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