

**auma**<sup>®</sup>

*Solutions for a world in motion*

## ALL ABOUT US

AUMA Scandinavia

# Safety first



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*Solutions for a world in motion*

## **Armaturen- und Maschinen- Antriebe**

AUMA Riester GmbH & Co. KG  
Aumastr. 1, 79379 Muellheim

AUMA Scandinavia AB  
Travbanegatan 8, 213 77 Malmö

# HQ MUELLHEIM

**auma**<sup>®</sup>  
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- 🌐 Headquarter
- 📍 Muellheim
- 👤 German family-owned company





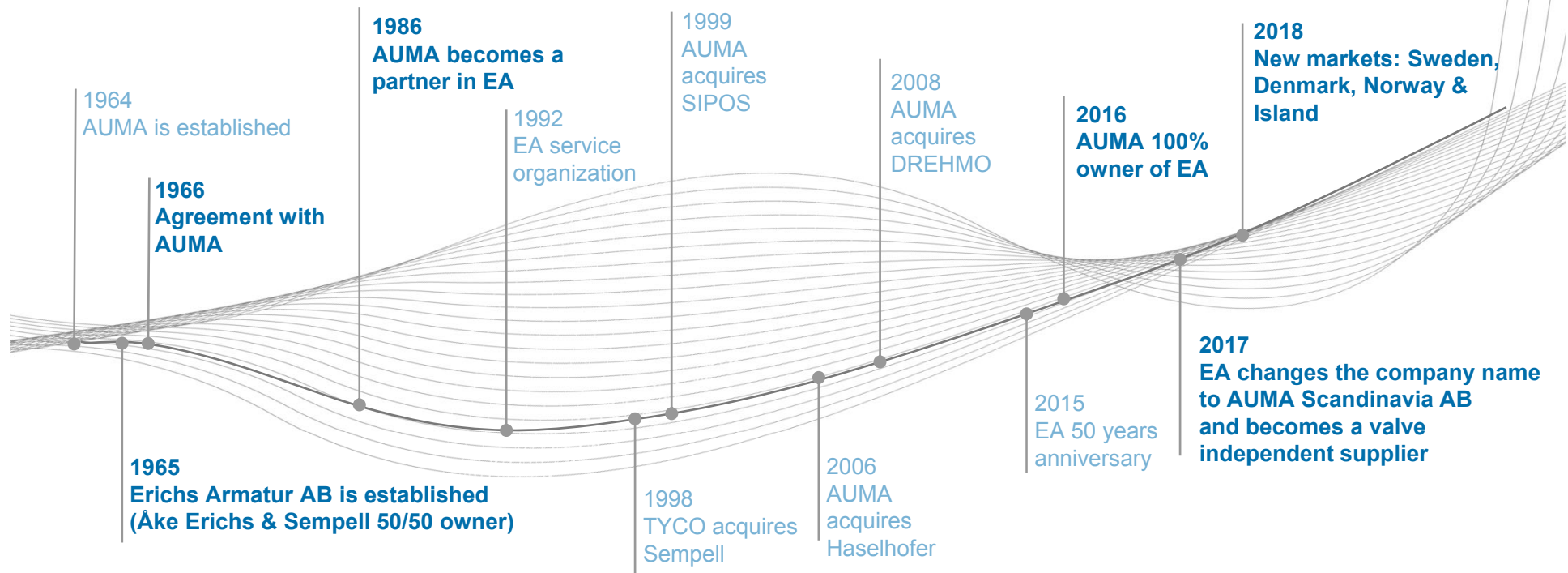
## AUMA Group

422 m € turnover in 2018  
More than 20 subsidiaries  
More than 50 dealers  
2 680 employees  
Global service and support  
9 manufacturing sites in Germany, USA, India and China

## AUMA Scandinavia

12 m € turnover in 2018  
40 employees  
Head quarter, production & warehouse, service & training center in Malmö  
Responsible markets:  
Sweden, Denmark, Norway and Island

# HISTORY AUMA SCANDINAVIA





**"We are the natural choice of supplier for electric actuators and service in Scandinavia"**

- ✓ Valve independent
- ✓ MOV specialist (Motor Operated Valves)
- ✓ Automation center for all types of valves
- ✓ Large warehouse
- ✓ Service specialist's with local presence
- ✓ One team throughout Scandinavia

Ä

Ärlighet = Honesty



R

Respekt = Respect

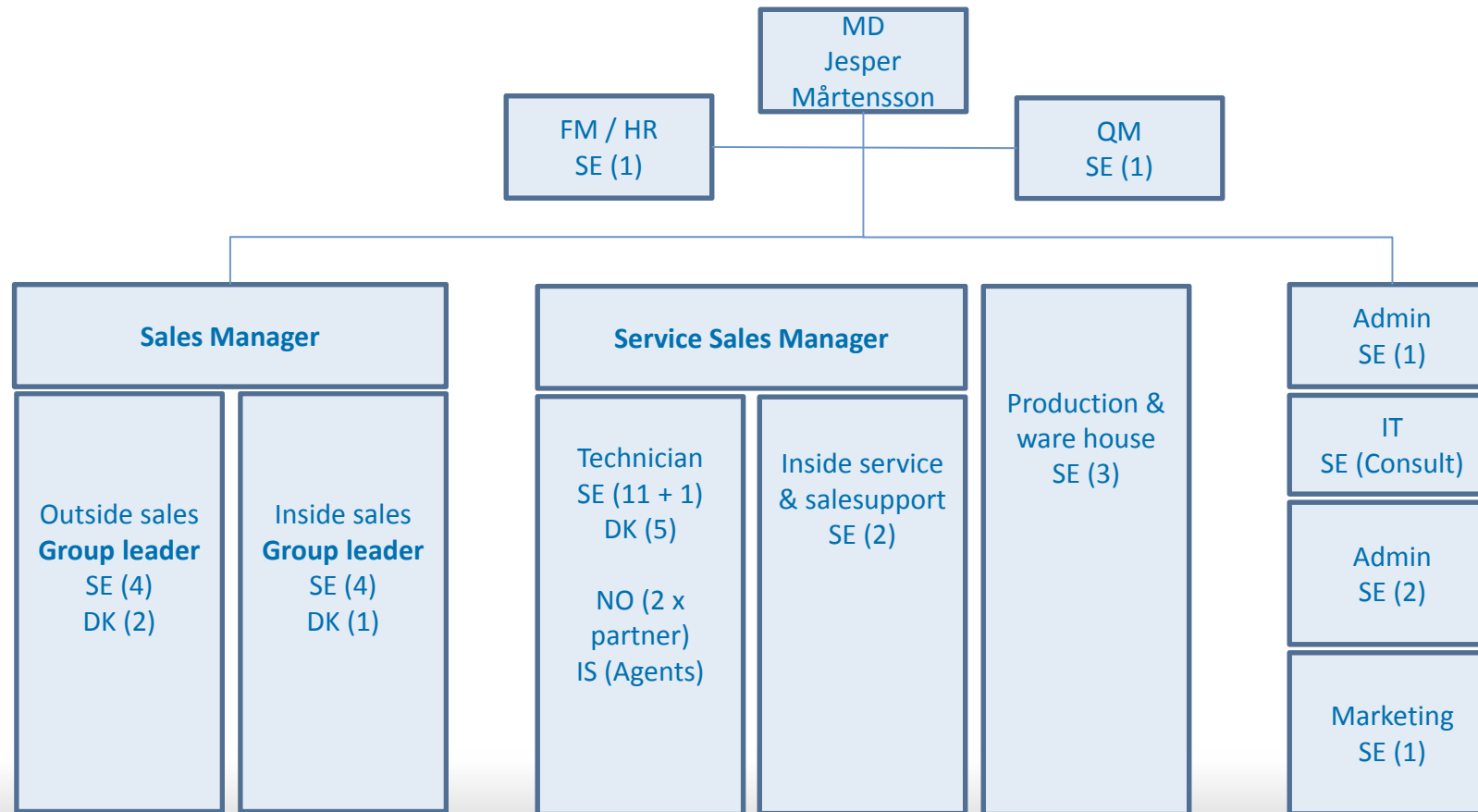


A

Ansvar = Responsibility

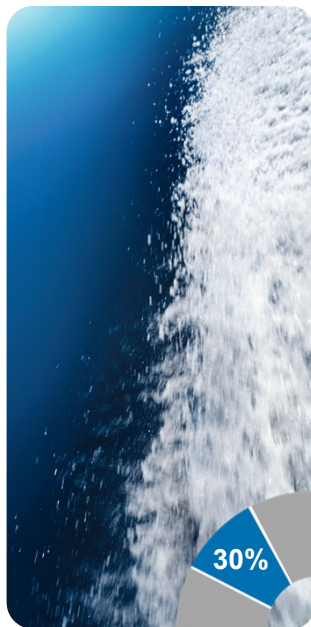


# ORGANIZATION AUMA SCANDINAVIA



# MARKETS

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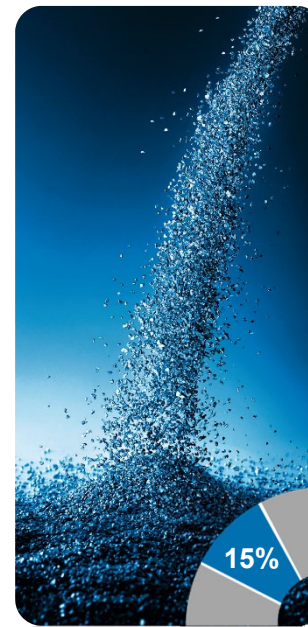
Water



Power



Oil & Gas



Industry

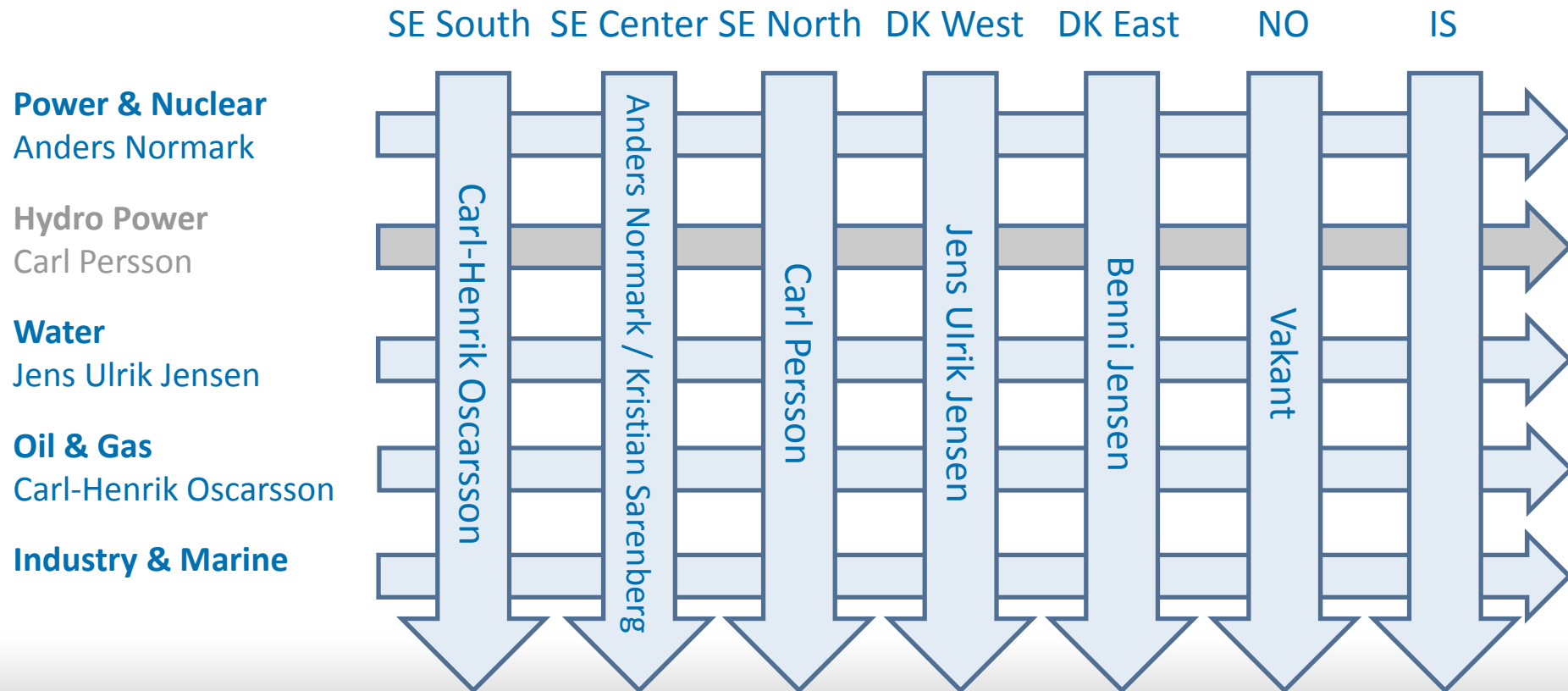


Drives



# SEGMENTATION

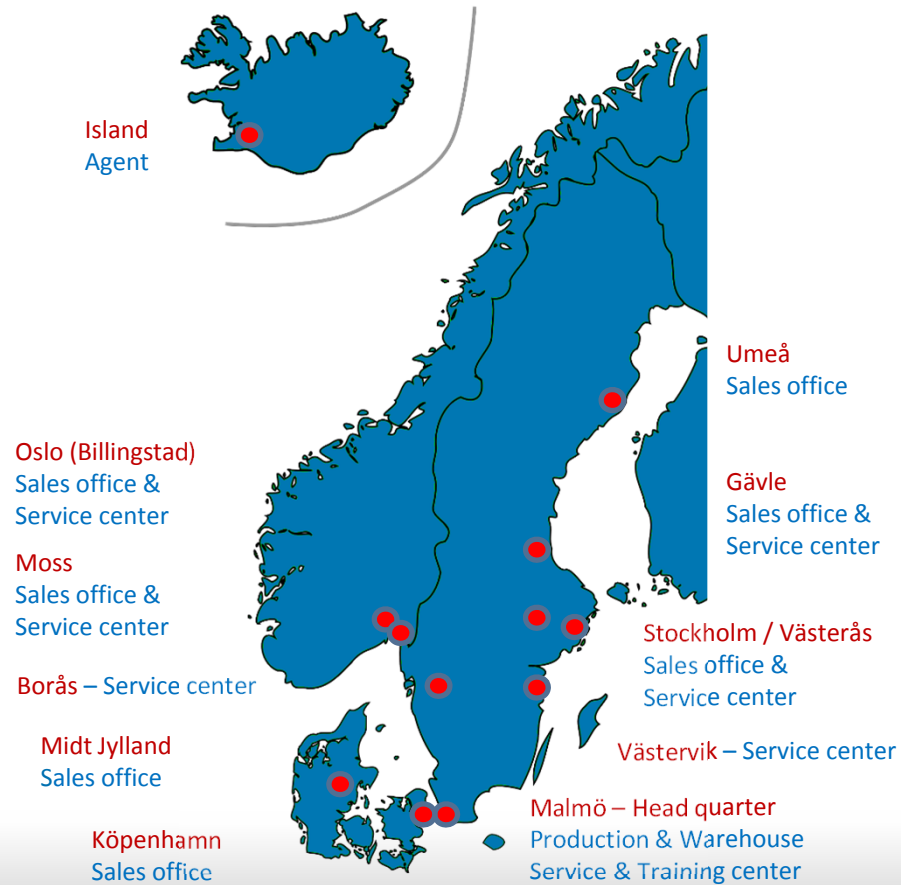
## Regional responsibility



# ORGANIZATION



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## OUR FACILITIES

### Headquarter in Malmö



“Let us do the maintenance of your actuators so you can focus on your main business”

## SERVICE & AFTER MARKET



- ✓ Large service business with local presence in Scandinavia with specialists on actuators.
- ✓ Well-equipped service center where we can receive your actuators for service and maintenance.
- ✓ Proper service and maintenance provide a better, safer and more economical facility.
- ✓ Service agreement which enables customers to focus on their main business.

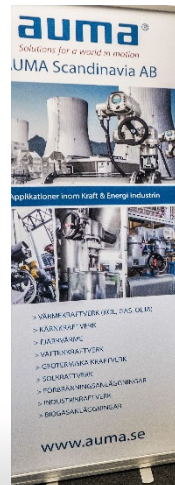




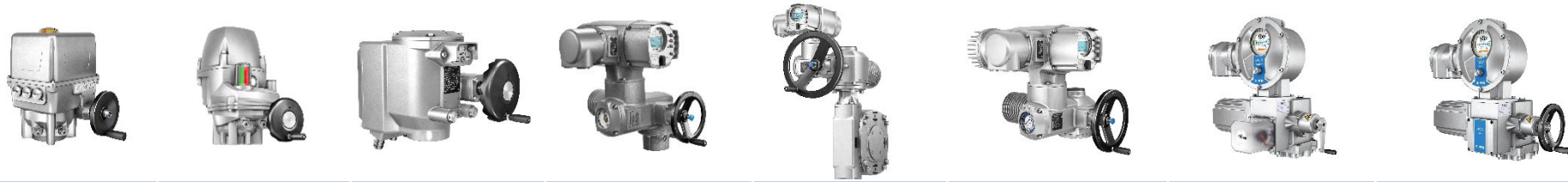
## HIGHEST QUALITY



- ✓ Our own warehouse of actuators and gear boxes in Malmö.
- ✓ Own production workshop for assembly and automation incl. setting and test run.
- ✓ AUMA test bench, on-line for safe calibration and final inspection.
- ✓ Education Center in Malmö where we offer tailor-made courses.
- ✓ Certified according to EN ISO 9001 & 14001.



# PART TURN ACTUATORS



ED 25-50 15-50Nm EQ 40-600 15-600Nm	PROFOX PF-Q 80-600 32-600Nm	SGC(R)04.1-12.1 25-1.000Nm	SQ(R)05.2-14.2 50-2.400Nm	SA07.2-16.2 / GS 250 – 675.000Nm	SAV07.2-16.2 / GS 120-16.000Nm	AUMA 7 / GS 120-16.000Nm	AUMA 7 HiMod / GS 120-16.000Nm 2SP78 250-1.305Nm
Norm / Analogue	Digital / Analogue / Fieldbus	Digital I/O Analogue / Fieldbus	Norm / Digital / Analogue/Fieldbus/ Combined interface	Norm / Digital / Analogue/Fieldbus /Combined interface	Digital / Analogue/Fieldbus Combined interface	Digital / Analogue / Fieldbus	Digital / Analogue / Fieldbus
On/off & regulating service up to 100% ED	On/off & regulating service 50% ED	On/off & regulating service 40% ED	On/off & regulating service 25%ED / 50%ED	On/off & regulating service 25%ED / 50%ED	On/off & regulating service 25%ED / 50%ED	On/off & regulating service 25%ED / 50%ED	Regulating service 100%ED
1x230V / 24VDC	1x230V	1x230V	3x400V / 1x 230V / DC	3x400V / 1x 230V / DC	3x400V / 1x230V	3x400V / 1x230V	3x400V / 1x230V
Fail-safe with super capacitor	Multi drilled flange Speed control Smart functions (IOT)	Marine actuator With integral controls	SIL Ex Failsafe FQM	SIL Ex	With integral controls Variable speed / Ex	With integral controls Variable speed Fail safe UPS	With integral controls Variable speed
Price example from ~ 500,- Euro	1.500:-	On / off 2.500:-	Norm 1.150:- AM 2.200:- AC 2.300:-	Norm 1.500:- AM 2.700:- AC 2.600:-	On/off 3.000 Regulating 4.000:-	On/off 2.500:- Regulating 3.500:-	5.500:-

# MULTI TURN ACTUATORS

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SD 05 - 25 2-25 Nm	PROFOX PF-M 25-100 10-100Nm	SVC(R)05.1 - 07.5 10-100 Nm	SA07.2-16.2 / GS 10 – 32.000Nm	SAV07.2-16.2 / GS 10 -1.000Nm	AUMA 7 / GS 9 - 4.000Nm	AUMA 7 HiMod 10 - 2.800 Nm
Norm / Analogue	Digital / Analogue / Fieldbus	Digital I/O / Analogue / Fieldbus	Norm / Digital / Analogue/Fieldbus/ Combined interface	Digital / Analogue / Fieldbus/ Combined interface	Digital / Analogue / Fieldbus	Digital / Analogue / Fieldbus
On/off & regulating service 30%ED	On/off & regulating service 50% ED	On/off & regulating service 40%ED	On/off & regulating service 25%ED / 50%ED	On/off & regulating service 25%ED / 50%ED	On/off & regulating service 25%ED / 50%ED	Regulating service 100%ED
1x230V / 24VDC	1x230V	1x230V	3x400V / 1x 230V / DC	3x400V / 1x230V	3x400V / 1x230V	3x400V / 1x230V
Max 60 turns / stroke Ex	Multi drilled flange Speed control Smart functions (IOT)	Marine actuator With integral controls	SIL Ex	With integral controls Variable speed Ex	With integral controls Variable speed Fail safe UPS	With integral controls Variable speed
Price example from ~ 1.700:- Euro	1.500:-	On/off 2.500:- Regulating 3.000:-	Norm 1.200:- AM 2.300:- AC 3.200:-	On/off 3.500:- Regulating 4.000:-	On/off 3.000:- Regulating 4.000:-	4.800:-

# THE PRODUCTS

**auma**<sup>®</sup>  
Solutions for a world in motion

Modular actuators and actuator controls with modular design

**i**  
Up to 32,000 Nm  
IP68  
Ex version



SA



SQ



AC



AM

# THE PRODUCTS

**auma**<sup>®</sup>  
Solutions for a world in motion

## Combinations with gearboxes

**i**  
Up to 120,000 Nm  
IP68  
Ex version



SA with GK



SA with GST



SA with GHT





# THE PRODUCTS

**auma**<sup>®</sup>  
Solutions for a world in motion

## Combinations with gearboxes

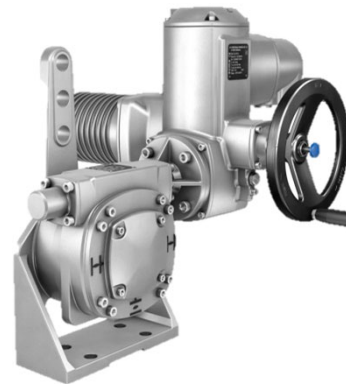
Up to 675,000 Nm  
IP68  
Ex version



SA with GS



SA with LE



SA with GF



SQ with base & lever



# THE PRODUCTS

**auma**<sup>®</sup>  
Solutions for a world in motion

## Variable speed actuators

Up to 4,000 Nm  
IP68 



SEVEN



SEVEN HiMOD



# THE PRODUCTS

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## Compact actuators



SVC



SVM



SDL



Up to 1,000 Nm  
IP68  
Marine version 



SGC



SGM



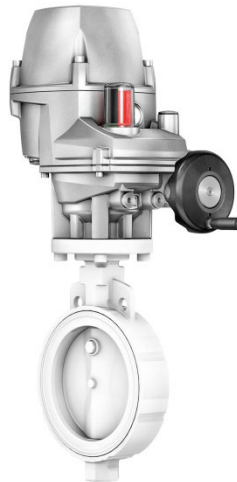
EQ



## AUMA'S NEW INTELLIGENT PLATFORM: PROFOX



**PROFOX PF-M**  
Multi-turn actuators  
10-100 Nm



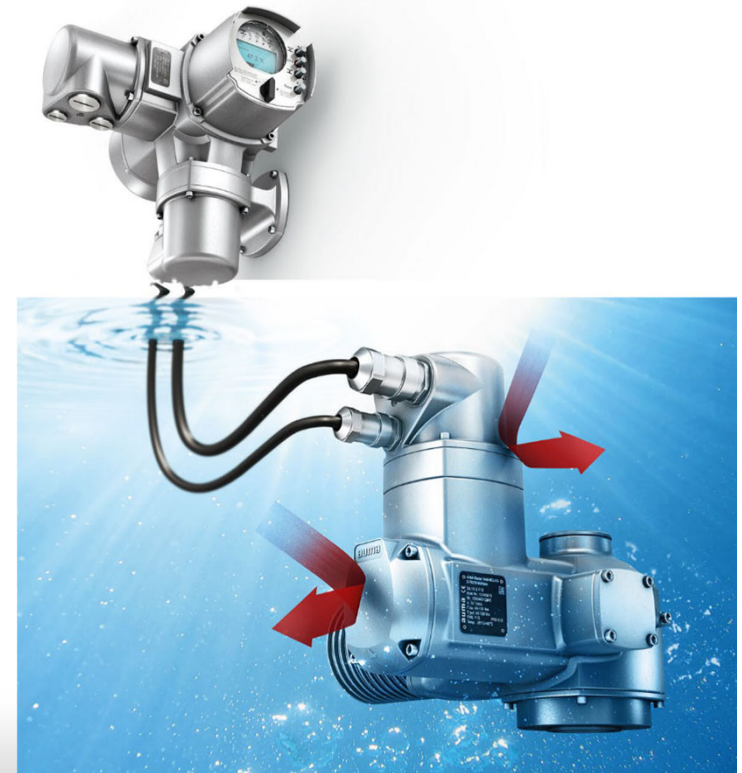
**PROFOX PF-Q**  
Part-turn actuators  
32-600 Nm



- Variable speed
- Smart with minimal maintenance
- Robust and compact
- Integrated steering, Intuitive deployment
- Bluetooth programming interface
- Operating standards: A, B and C (EN 15714-2)
- Option: Positioner, Hand steering, IP68
- Option: Profibus and Modbus interface

## ACTUATORS FOR UNDER WATER USE

- ✓ AUMA SA multifunctional actuators for installation under water open up new possibilities for applications in, for example, water supply, hydro power plants or other specific applications.
- ✓ A universal sealing system combined with extensive corrosion protection qualifies these actuators for use under water.





## ENVIRONMENTAL BENEFITS

AUMA has environmentally friendly and safe electric actuators for applications in hydropower and dams. Some of the advantages over hydraulics are:

- ✓ No risk of oil leakage.
  - ✓ No need for emergency preparedness.
  - ✓ No expensive time-consuming oil changes.
  - ✓ No wear on oil hoses.
  - ✓ No expensive filter changes.
  - ✓ Fewer spare parts.
  - ✓ Easy monitoring.
  - ✓ Less maintenance.
  - ✓ IP68 by default.
  - ✓ Submersible option available for constant operation under water.
- Our solutions enable lifting up to 275 tons, 9 meters stroke with a single electric AUMA device.



## FQM - FAIL SAFE

- ✓ Actuators with fail-safe function are used for valve applications on plants with significant risk potential. Fail-safe units can automatically open or close valves in the event of an emergency, even without power supply.
- ✓ The AUMA FQM fail-safe unit is particularly suited for automation of butterfly valves and ball valves. The unit meets the requirements in safety-related applications up to SIL 2 / SIL 3. Also available in ATEX version.



## EMERGENCY CLOSING MODULE FSC

- ✓ Emergency operation in case of power failure.  
In case of power failure, the actuator runs to a programmed end position.
- ✓ Voltage storage with super capacitors.  
Long life (> 10 years,  $\vartheta < 40^{\circ} \text{C}$ ).  
Large number of maneuvers (500'000 cycles @  $25^{\circ} \text{C}$ ).  
Short charging time, free from maintenance.
- ✓ Wide voltage supply area.  
90 - 264 V AC, 47 - 63 Hz, 24 V DC.  
No influence of voltage variations.



# CONNECTION TO THE CONTROL SYSTEM

**auma**<sup>®</sup>  
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✓ AUMA supports all standardised fieldbus systems

**i**  
Profibus DP  
HART  
Foundation Fieldbus  
Profinet  
Modbus TCP/IP  
Wireless HART

**+**  
Master station SIMA  
for integration in  
DCS



## CUSTOMERS

**auma**<sup>®</sup>  
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VATTENFALL



CTR – Centralkommunernes  
Transmissionsselskab I/S

