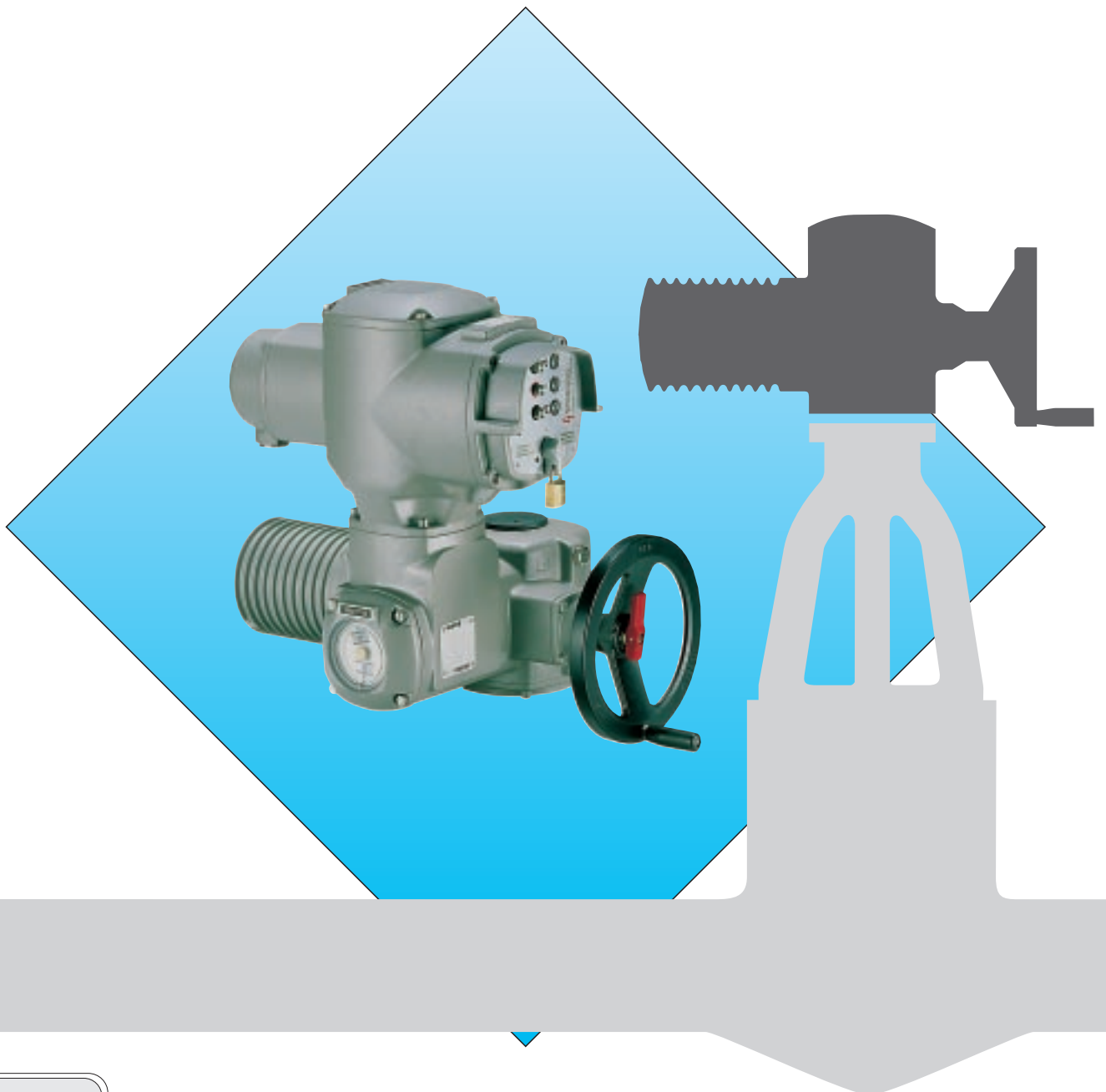


auma®

Electric Actuators

SA 07.1 – SA 16.1



Certificate Registration No.
12 100 4269

Information

auma Actuators SA 07.1 – SA 16.1

In the course of increasing automation in all sectors of industry, electric actuators for process control and regulation have become more and more important.

AUMA is one of the worldwide leading manufacturers of electric actuators for industrial valves.

AUMA actuators are of a unique modular design for the entire type range.

Multi-turn actuators AUMA NORM

AUMA actuators fulfill the high requirements for the automation of valves.

The most important features are:

- **Wide torque range**
Output torque from 10 Nm to 1 000 Nm¹⁾ in 6 sizes at uniform design
- **Fine progressive ratio of output speeds**
Speed range from 4 to 180 rpm with ratio factor 1.4
- **Valve attachment**
Output drive types according to standard ISO 5210 for the attachment to different valves. Special attachments to suit valve are possible
- **High enclosure**
Standard is enclosure IP 67 according to DIN 40 050 / IEC 529; IP 68 available as an option
- **Corrosion protection**
As a standard high quality corrosion protection KS; suitable for outdoor installation and slightly aggressive atmosphere

Robust design, easy commissioning, high reliability, low service requirements and the possibility to mount the actuators in any position are further advantages of AUMA multi-turn actuators.

1) for torque up to 32 000 Nm see types SA 25.1 – SA 48.1

Motor controls AUMA MATIC

with reversing contactors, control transformer, control logic, phase discrimination and interface for external and internal signals;
Opto-electronic converters (opto-couplers) for galvanic separation



Plug / socket connector

for customer connection of motor, remote control and signal wires



AUMA motor

totally enclosed, with high starting torque and reliable motor protection by



Control unit

with limit and torque switching, optional devices for continuous feedback of the valve position



Local control station
with lockable selector switch and
push-buttons;
Indication lights as an option

Valve attachment
Output drive type A for rising, non-
rotating spindle, can accept thrust

Motor controls AUMA MATIC

The integral motor controls AUMA MATIC are for the controlling of electric actuators and for connecting them to the process control systems. AUMA MATIC offers a reliable and economical control technology for electric actuators.

The features:

- **Modular design**
all electrical components are arranged on boards in a housing with enclosure IP 67. To meet special requirements, an electronic positioner, a timer or a 2-wire control (e.g. PROFIBUS) interface can be installed as options.
- **Programmable**
required functions can be easily selected at change-over switches
- **Local controls**
available at AUMA MATIC:
 - Selector switch for control positions LOCAL – OFF – REMOTE, lockable in all 3 positions
 - Push-buttons for operation at site OPEN – STOP – CLOSE
- **Phase monitoring**
at wrong phase sequence or phase failure the starting of the actuator is prevented
- **Attachable**
to the actuator with the standard plug / socket connector. Retrofit for actuators AUMA NORM possible
- **Cost saving**
considerable cost saving in comparison to conventional wiring systems

Versions

AUMA offers a wide product range of electric actuators in the versions for:

- OPEN – CLOSE duty (SA)
- modulating service (SAR)
- explosion-proof OPEN – CLOSE and modulating service (SA Ex or SAR Ex).

auma automates valves



Worm gearboxes
GSM 40.3 GSM 125.3
Output torque from 125 to 5 600 Nm



Multi-turn actuators
SA 25.1 SA 48.1
Output torque from 630 to 32 000 Nm
Output speeds from 4 to 90 min⁻¹



Worm gearboxes
GS 160 GS 500
Output torque from 8 000 to 360 000 Nm



Multi-turn actuators
SA 07.1 SA 16.1
Output torque from 10 to 1 000 Nm
Output speeds from 4 to 180 min⁻¹



Part-turn actuators
AS 3 AS 50
Output torque from 25 to 500 Nm
Operating times for 90 from 4 to 90 s



Part-turn actuators
SG 05.1 SG 12.1
Output torque from 90 to 1 200 Nm
Operating times for 90 from 4 to 180 s



Bevel gearboxes
GK 10.2 GK 40.2
Output torque from 120 to 16 000 Nm



Spur gearboxes
GST 10.1 GST 40.1
Output torque from 120 to 16 000 Nm

auma[®]

WERNER RIESTER GmbH & Co. KG
Armaturen- und Maschinenantriebe
P.O.Box 1362 • D - 79373 Müllheim
Tel 07631/809-0 • Fax 07631/13218
e-mail riester@auma.com
<http://www.auma.com>



Certificate Registration No.
12 100 4269