

# Electrical Actuators

Product range overview

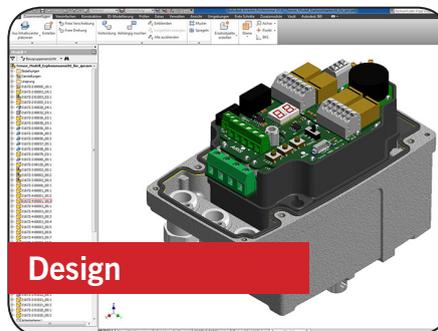
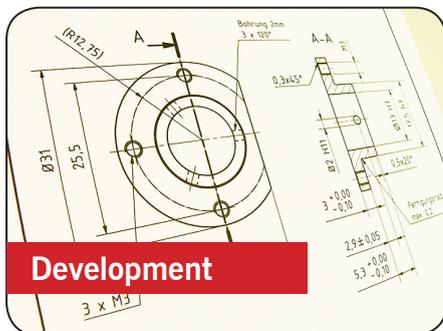


## ARIS bridges gaps

You are faced with a problem in your system and are looking for an alternative or new solution?

40 years of experience and in-house expertise. ARIS created new capacities for their design department and located it back to the headquarters in Troisdorf/Germany. We develop and build high-quality electric actuators which are equipped with contemporary technology. Drives made by ARIS are created by our engineers, technicians and the sales team in close cooperation with our clients. So we are able to develop marketable products from scratch to production under one single roof. In addition to standard products, we can implement individual solutions for customer projects as well as special drives as OEM goods.

**Come to ARIS – Your specialist for modern actuator technology „Made in Germany“.**



**ARIS Stellantriebe GmbH** – Your experienced partner. For many years, the ARIS brand stands for high quality and customized solutions in all areas of industrial plants and machinery:

- Environmental engineering
- Pharmaceutical industry
- Food industry
- Heater/Burner
- Furnaces
- Public services
- Supplier

**ARIS actuators and valves operate in various applications:**

- Dosing pumps
- Industrial burners
- Air conditioning and ventilation
- Boilers
- Painting lines
- Blinds
- Industrial furnaces
- Autoclaves



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ARIS Stellantriebe GmbH

# ARIS Actuator range

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## Tensor

Access to Industry 4.0 with modern actuator technology. All drives are equipped with electronic position indication and comprehensive networking features.

## Nano

Robust and reliable technology on smallest space in combination with high operating and connection comfort.

## Nano+ und CL

The allrounder with a wide accessory program for all applications. Classic actuator technology with synchronous motor and spur gears.

## Rotary and part-turn actuators

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<b>Tensor</b>	Fully electronic controlled actuator with exact time and torque control and a precision gear.
<b>Nano</b>	Classic actuator technology with synchronous motor and spur gearing.
<b>Nano+</b>	Versatile, flexible and robust on a very small layout.
<b>CL</b>	The robust standard drives in 3 types up to 300 Nm.

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## Linear motion drives/Damper actuator

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<b>Linearis TE</b>	Innovative linear motion drive with maintenance-free DrySpin© thread technology. The Intelligent Line edition with Tensor drive heads (Linearis TE).
<b>Linearis N+/CL</b>	Innovative linear motion drive with maintenance-free DrySpin© thread technology. The Classic Line edition with drive heads Nano+ (Linearis N+) or CL (Linearis CL).
<b>CL-H</b>	The fully capsuled linear motion actuator with CL drive heads.

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## Ex Drives for Zone 1

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<b>Tensor Ex</b>	All Intelligent Line actuators (incl. Linearis) are available with flame-proof enclosures for use in explosive atmospheres.
<b>Nano+ Ex / CL Ex</b>	All actuators of type Nano+ and CL-S (incl. Linearis) are available with flame-proof enclosures for use in explosive atmospheres.

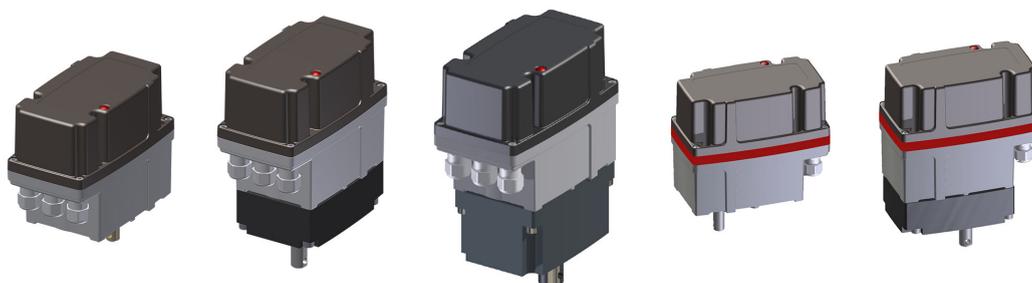
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## Product matrix - Electrical actuators 1/3

### Rotary and part-turn actuators

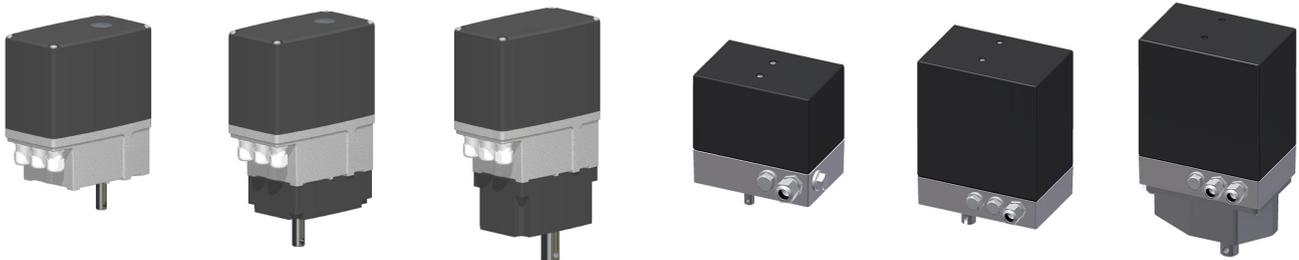
	Tensor S	Tensor M	Tensor L	Nano S	Nano M
Pos. indication/Shut-off	Hall-Sensor	Hall-Sensor	Hall-Sensor	Switches/Cams	Switches/Cams
Motor	BLDC	BLDC	BLDC	Synchronous	Synchronous
Gear	Precision	Precision	Precision	Standard	Standard
Cover	Polycarbonate or powder-coated alu	Polycarbonate or powder-coated alu	Polycarbonate or powder-coated alu	Polycarbonate	Polycarbonate
Time/Torque monitoring	yes	yes	yes	no	no
Travel	Multiturn	Multiturn	Multiturn	320°	150°/100°
Perm. Voltage input	yes	yes	yes	no	no
Protection class	IP 65 (opt. 66)	IP 65 (opt. 66)	IP 65 (opt. bis 67)	IP 65 (opt. IP 66)	IP 65 (opt. IP 66)
Torque/Force	5...20 Nm	30...60 Nm	80...120 Nm	5...20 Nm	30...60 Nm
Actuating time	0.8...60 s/90°	8...120 s/90°	25...210 s/90°	3...60 s/90°	6...180 s/90°
Voltage	85-265 V AC 24 V DC	85-265 V AC 24 V DC	85-265 V AC 24 V DC	24, 115, 230 V AC 24 V DC	24, 115, 230 V AC 24 V DC
Potentiometer	electrical	electrical	electrical	mechanical	mechanical
add. switches	4 pcs. electrical	4 pcs. electrical	4 pcs. electrical	2 pcs.	2 pcs.
Heating	serial	serial	serial	yes	yes
Relays	not required	not required	not required	yes	yes
Controller	PID-Controller	PID-Controller	PID-Controller	Position controller	Position controller
Current output	yes	yes	yes	yes	yes
Industrial bus	yes	yes	yes	no	no
Manual override	yes	yes	yes	no	no
Service switch	serial	serial	serial	yes	yes
Position indicator	electrical	electrical	electrical	mechanical	mechanical
Hand wheel	yes	yes	yes	yes	yes
TÜV Poti	no	no	no	yes	yes
 Atex Zone 2/22	yes	yes	yes	no	no

OPTIONS



Rotary and part-turn actuators

	Nano+ S	Nano+ M	Nano+ L	CL-S	CL-M	CL-L
	Switches/Cams	Switches/Cams	Switches/Cams	Switches/Cams	Switches/Cams	Switches/Cams
	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
	Standard	Standard	Standard	Standard	Standard	Standard
	Alu	Alu	Alu	Alu	Alu	Alu
	no	no	no	no	no	no
	Multiturn	Multiturn	Multiturn	Multiturn	Multiturn	Multiturn
	no	no	no	no	no	no
	IP 65 (opt. 66)	IP 65 (opt. IP 66)	IP 65 (opt. IP 66)	IP 65 (opt. 66)	IP 65 (opt. 66)	IP 65 (opt. 66)
	5...20 Nm	30...60 Nm	70...120 Nm	2...40 Nm	60...100 Nm	140...300 Nm
	0.8...60 s/90°	3...180 s/90°	6...210 s/90°	0.8...120 s/90°	6...200 s/90°	17...140 s/90°
	115, 230 V AC 24 V DC	115, 230 V AC 24 V DC	115, 230 V AC 24 V DC	24, 115, 230 V AC 24 V DC	24, 115, 230 V AC 24 V DC	24, 115, 230 V AC 24 V DC
	mechanical	mechanical	mechanical	mechanical	mechanical	mechanical
	4 pcs.	4 pcs.	4 pcs.	6 pcs.	6 pcs.	6 pcs.
	yes	yes	yes	yes	yes	yes
	yes	yes	yes	yes	yes	yes
	Position controller	Position controller	Position controller	Position controller	Position controller	Position controller
	yes	yes	yes	yes	yes	yes
	no	no	no	no	no	no
	no	no	no	yes	yes	yes
	yes	yes	yes	yes	yes	yes
	mechanical	mechanical	mechanical	mechanical	mechanical	mechanical
	yes	yes	yes	yes	yes	yes
	yes	yes	yes	no	no	no
	yes	yes	yes	no	no	no



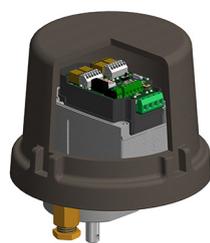
## Product matrix - Electrical actuators 2/3

Rotary and part-turn actuators for Ex zones



	Tensor Ex 5-20 Nm	Tensor Ex 30-60 Nm	Tensor Ex 70-120 Nm
Pos. indication/Shut-off	Hall-Sensor	Hall-Sensor	Hall-Sensor
Motor	BLDC	BLDC	BLDC
Gear	Precision	Precision	Precision
Time/Torque monitoring	yes	yes	yes
Travel	Multiturn	Multiturn	Multiturn
Perm. Voltage input	yes	yes	yes
Protection class	IP 65	IP 65	IP 65
Torque/Force	5...20 Nm	30...60 Nm	80...120 Nm
Actuating time	0,8...60 s/90°	8...180 s/90°	25...210 s/90°
Voltage	85-265 V AC 24 V DC	85-265 V AC 24 V DC	85-265 V AC 24 V DC
Potentiometer	electronical	electronical	electronical
add. switches	4 pcs. electronical	4 pcs. electronical	4 pcs. electronical
Heating	automatical	automatical	automatical
Relays	yes	yes	yes
Controller	PID-Controller	PID-Controller	PID-Controller
Current output	yes	yes	yes
Industrial bus	yes	yes	yes
Manual override	no	no	no
Service switch	serial	serial	serial
Position indicator	no	no	no
Hand wheel	no	no	no

OPTIONS



**Ex** Rotary and part-turn actuators for Ex zones

	Nano+ Ex 5-20 Nm	Nano+ Ex 30-60 Nm	Nano+ Ex 70-120 Nm	CL Ex
	Switches/Cams	Switches/Cams	Switches/Cams	Switches/Cams
	Synchronous	Synchronous	Synchronous	Synchronous
	Standard	Standard	Standard	Standard
	no	no	no	no
	Multiturn	Multiturn	Multiturn	Multiturn
	no	no	no	no
	IP 65	IP 65	IP 65	IP 65
	5...20 Nm	30...60 Nm	70...120 Nm	2...40 Nm
	0.8...60 s/90°	3...180 s/90°	25...210 s/90°	0.8...120 s/90°
	115, 230 V AC 24 V DC	115, 230 V AC 24 V DC	115, 230 V AC 24 V DC	24, 115, 230 V / 24 V
	mechanical	mechanical	mechanical	mechanical
	4 pcs.	4 pcs.	4 pcs.	6 pcs.
	yes	yes	yes	yes
	yes	yes	yes	yes
	Position controller	Position controller	Position controller	Position controller
	yes	yes	yes	yes
	no	no	no	no
	no	no	no	no
	yes	yes	yes	yes
	no	no	no	no
	no	no	no	no



## Product matrix - Electrical actuators

### 3/3

### Linear motion drives/Damper Actuators

	Linearis TE (Tensor)	Linearis N+ (Nano+)	Linearis CL
Pos. indication/Shut-off	Hall-Sensor	Switches/Cams	Switches/Cams
Motor	BLDC	Synchronous	Synchronous
Gear	Precision	Standard	Standard
Time/Torque monitoring	yes	no	no
Travel	150 / 300 mm	150 / 300 mm	150 / 300 mm
Perm. Voltage input	yes	no	no
Protection class	IP 65 (opt. 66)	IP 65 (opt. 66)	IP 65 (opt. 66)
Torque/Force	600...5000 N	600...5000 N	600...3200 N
Actuating time	0.7...3.3 mm/s	0.7...12.5 mm/s	1.4...8.5 mm/s
Voltage	85-265 V AC 24 V DC	24, 115, 230 V AC 24 V DC	24, 115, 230 V AC 24 V DC
Potentiometer	electrical	mechanical	mechanical
add. switches	4 pcs. electrical	4 pcs.	6 pcs.
Heating	automatical	yes	yes
Relays	yes	yes	yes
Controller	PID-Controller	Position controller	Position controller
Current output	yes	yes	yes
Industrial bus	yes	no	no
Manual override	yes	no	yes
Service switch	serial	yes	yes
Position indicator	electrical	mechanical	mechanical
Hand wheel	yes	yes	yes

OPTIONS



Linear motion drives/Damper Actuators



	CL-H	Linearis TE Ex	Linearis N+ Ex	Linearis CL Ex
	Switches/Cams	Hall-Sensor	Switches/Cams	Switches/Cams
	Synchronous	BLDC	Synchronous	Synchronous
	Standard	Precision	Standard	Standard
	no	yes	no	no
	150...1000 mm	150 / 300 mm	150 / 300 mm	150 / 300 mm
	no	yes	no	no
	IP 65	IP 65	IP 65	IP 65
	600...4000 N	600...5000 N	600...5000 N	600...3200 N
	1.7...6.6 mm/s	0.7...3.3 mm/s	0.7...12.5 mm/s	1.4...8.5 mm/s
	24, 115, 230 V AC 24 V DC	85-265 V AC 24 V DC	24, 115, 230 V AC 24 V DC	24, 115, 230 V AC 24 V DC
	mechanical	electronical	mechanical	mechanical
	6 pcs.	4 pcs. electronical	4 pcs.	6 pcs.
	yes	automatical	yes	yes
	yes	not required	yes	yes
	Position controller	PID-Controller	Position controller	Position controller
	yes	yes	yes	yes
	no	yes	no	no
	yes	no	no	yes
	yes	serial	yes	yes
	mechanical	no	no	no
	yes	no	no	no



# Customized solutions

**ARIS Stellantriebe GmbH is your reliable partner for special and project solutions. Let us advise you which drives or fittings are basically suitable for your needs and how these can be customized for your project.**

In addition to the standard output shafts for electric drives (cross bore, feather key and inner four-square) we will manufacture shaft forms in any type and size upon your request. We can accommodate your needs accordingly to the choice of material. If you order a complete unit (motor + fitting), the adjustment of the output shaft to the actuator is performed directly in our assembly department.

In our Intelligent Line, travel times, torque and control curves can be programmed individually by the electronic drive control. This programming is made during production of the drive, but can be changed later. That makes it possible to realize easy and fast various regulating scenarios with only one drive type.

For our products, we consistently use high quality materials. If you require special materials for the mechanical parts for your project, please contact our design team which is here to clarify the requirements and details with you.

Our drives come with three cable entries for the supply-voltage or control as standard. If you require special plugs for connections, we can provide plugs and adapter in any kind. These are installed directly during production of the drive or you can get the special connectors delivered separately for self-assembly.

Special connector



Customized design with base plate

The drive housing and cover are tuned to the technology built inside the drive. As part of an OEM solution or for special housing adaptations, we offer special solutions too. Color, material and shape can be customized to your project.

The drive type LINEARIS is available as standard with the stroke length of 150 mm and 300 mm. By our flexible component production and assembly in our factory, we can implement any other stroke millimeter exactly. For the motorization and control of customized LINEARIS drives, please contact us also for advice.

You will find our industrial valves in our catalogue in many different shapes, sizes and materials. We can adapt the valves RD-K, L5-RD, L6-FD, HT-L, HT2-B and BARI from the ground up to suit your requirements - here any designs, sizes and various materials are possible. Whether round or rectangular, swing-through or with stop, with and without gasket, as blind version or with connecting rods ... anything is possible.

Of course all special solutions are tested for proper functionality and packed safely for shipping.

**Many special solutions are possible for ARIS products - contact us!**



# Complete valves

At ARIS you get high quality electric and pneumatic actuators and robust industrial valves. Products for self-assembly or replacement drives and accessories are available separately. Of course we also pre-assemble your order in our factory. This saves you from time-consuming material handling and assembly on site and the unit is ready for use and installation directly into the piping system. The prefabricated complete fittings are pre-adjusted to the required parameters and tested for proper functionality. Packed safely for transport and adequately documented, we will send the complete unit to your desired delivery address ... worldwide!



## Pneumatic actuators

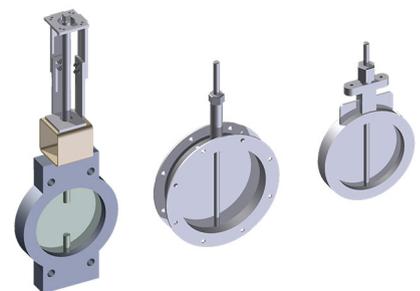
- Housing anodized aluminum
- Connections acc. DIN/ISO/NAMUR
- Settable travel stops
- Pre-stressed protected springs
- Position indicator
- SIL2 approved



The ARIS pneumatic part-turn actuators provide a uniform torque in a sleek case that is used both for the double and single acting. The pneumatic actuators are available with a variety of accessories and various options. We supply the drives individually or directly on a fully assembled fitting.

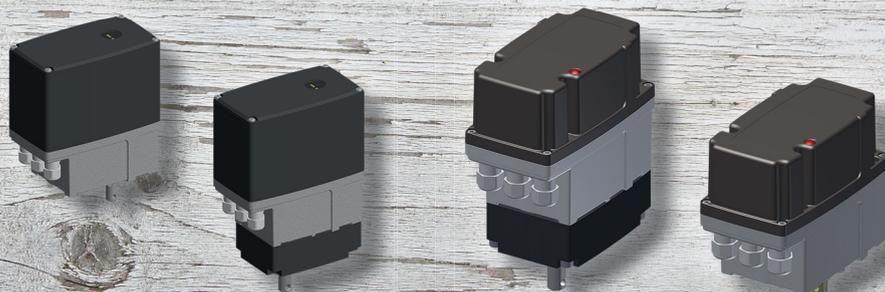
## Industrial valves

- Ring-type valves
- Gas regulating valves
- Air valves
- Shut-off valves
- High temperature valves
- Ball valves
- Mixing valves



In addition to our electric and pneumatic actuators, we also offer an extensive range of industrial valves. These are available individually or as a complete unit already with mounted electric or pneumatic actuator.

# Take a look?



***Sample drives from ARIS...  
Order now!***

You are convinced by the facts, but want to hold an ARIS actuator in your hand? No problem! We send you a sample drive which is right for your applications. You can test it in your environment without obligation.

**Our sales team will help you, contact us now:**

**Telefon: 02241 25186-0**

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