

Electrical Actuators

General Overview

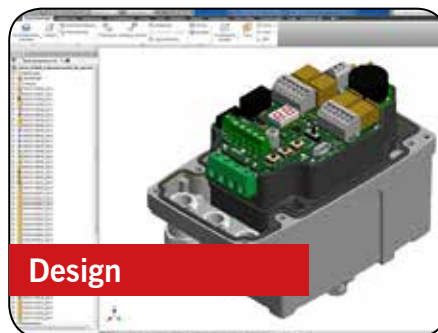
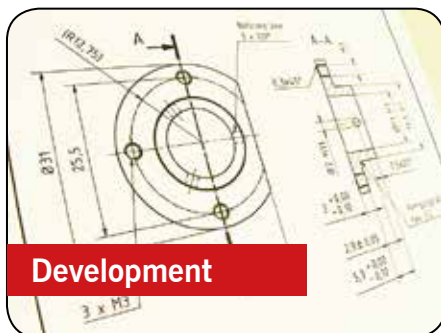


ARIS bridges gaps

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 plant 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



ARIS Stellantriebe GmbH • Rotter Viehtrift 9 • D-53842 Troisdorf
Telefon +49 2241 25186-0 • aris@stellantriebe.de

SHORT OVERVIEW Actuator range

Intelligent Line

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

COMPACT LINE

The entry level series with robust and reliable technology in a small housing but with high operating and connectivity comfort.

Classic Line

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

Rotary and part-turn drives

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

Linear drives/Damper actuators

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

Drives for Ex zone 1

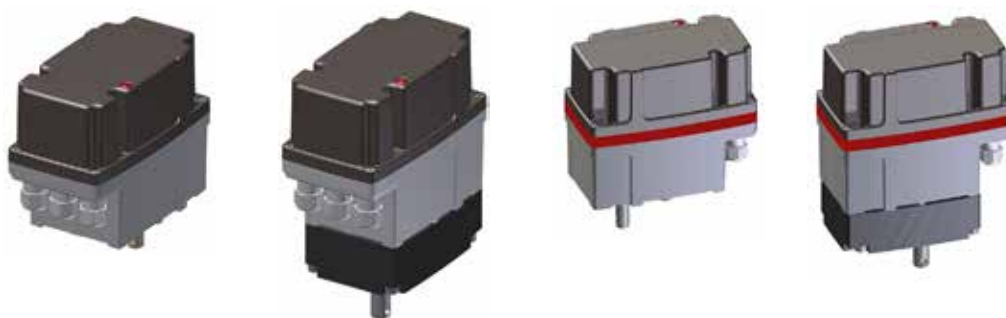
Tensor Ex	All Intelligent Line actuators (incl. Linearis) are available with flame-proof enclosures for use in explosive atmospheres.
Nano Ex	All Compact Line actuators are available with flame-proof enclosures for use in explosive atmospheres.
Nano+ Ex	All actuators of type Nano+ and CL-S (incl. Linearis)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

Product matrix - Electrical actuators

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Rotary and part-turn actuators

	Tensor S	Tensor M	Nano S	Nano M
Series	Intelligent Line	Intelligent Line	Compact Line	Compact Line
Pos. indication/Shut-off	Hall sensor	Hall sensor	Switches/Cams	Switches/Cams
Motor	BLDC	BLDC	Synchronous	Synchronous
Gear	Precision	Precision	Standard	Standard
Cover	Polycarbonate or powder coated aluminum	Polycarbonate or powder coated aluminum	Polycarbonate	Polycarbonate
Time/Torque monitoring	yes	yes	no	no
Travel	Multiturn	Multiturn	320°	150°/100°
Perm. voltage input	yes	yes	no	no
Protection class	IP 65 (opt. 66)	IP 65 (opt. 66)	IP 65 (opt. IP 66)	IP 65 (opt. IP 66)
Torque/Force	1...20 Nm	30...60 Nm	5...20 Nm	30...60 Nm
Actuating time	0,8...60 s/90°	6...180 s/90°	3...60 s/90°	6...180 s/90°
Voltage AC/DC	85-265 V / plan	85-265 V / plan	24, 115, 230 V / 24 V	24, 115, 230 V / 24 V
OPTIONEN	Potentiometer	electronical	electronical	mechanical
	add. switches	4 pcs. electronical	4 pcs. electronical	2 pcs.
	Heating	automatisch	automatisch	yes
	Relais	yes	yes	yes
	Controller	PID controller	PID controller	Position controller
	Current output	yes	yes	yes
	Industrial bus	yes	yes	no
	mech. manual override	yes	yes	no
	Service switch	Standard	Standard	yes
	Position indicator	electronical	electronical	mechanical
Hand wheel	yes	yes	yes	



Product matrix - Electrical actuators

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Rotary and part-turn actuators

	Nano+ S	Nano+ M	CL-S	CL-M	CL-L
	Classic Line	Classic Line	Classic Line	Classic Line	Classic Line
	Switches/Cams	Switches/Cams	Switches/Cams	Switches/Cams	Switches/Cams
	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
	Standard	Standard	Standard	Standard	Standard
	Alu	Alu	Alu	Alu	Alu
	no	no	no	no	no
	Multiturn	Multiturn	Multiturn	Multiturn	Multiturn
	no	no	no	no	no
	IP 65 (opt. 66)	IP 65 (opt. IP 66)	IP 65 (opt. 66)	IP 65 (opt. 66)	IP 65 (opt. 66)
	5...20 Nm	30...60 Nm	2...40 Nm	60...100 Nm	140...300 Nm
	3...60 s/90°	6...180 s/90°	0,8...120 s/90°	6...200 s/90°	17...140 s/90°
	115, 230 V / 24 V	115, 230 V / 24 V	24, 115, 230 V / 24 V	24, 115, 230 V / 24 V	24, 115, 230 V / 24 V
	mechanical	mechanical	mechanical	mechanical	mechanical
	4 pcs.	4 pcs.	6 pcs.	6 pcs.	6 pcs.
	yes	yes	yes	yes	yes
	yes	yes	yes	yes	yes
	Position controller	Position controller	Position controller	Position controller	Position controller
	yes	yes	yes	yes	yes
	no	no	no	no	no
	no	no	yes	yes	yes
	yes	yes	yes	yes	yes
	mechanical	mechanical	mechanical	mechanical	mechanical
	yes	yes	yes	yes	yes



Product matrix - Electrical actuators

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Flame-proof rotary and part-turn actuators

	Tensor Ex S	Tensor Ex M	Nano Ex S	
Series	Intelligent Line	Intelligent Line	Compact Line	
Pos. indication/Shut-off	Hall sensor	Hall sensor	Switches/Cams	
Motor	BLDC	BLDC	Synchronous	
Gear	Precision	Precision	Standard	
Time/Torque monitoring	yes	yes	no	
Travel	Multiturn	Multiturn	320°	
Perm. voltage input	yes	yes	no	
Protection class	IP 65	IP 65	IP 65	
Torque/Force	1...20 Nm	30...60 Nm	5...20 Nm	
Actuating time	0,8...60 s/90°	6...180 s/90°	3...60 s/90°	
Voltage AC/DC	85-265 V / plan	85-265 V / plan	24, 115, 230 V / 24 V	
OPTIONEN	Potentiometer	electronical	mechanical	
	add. switches	4 pcs. electronical	4 pcs. electronical	2 pcs.
	Heating	automatisch	automatisch	yes
	Relais	yes	yes	yes
	Controller	PID controller	PID controller	Position controller
	Current output	yes	yes	yes
	Industrial bus	yes	yes	no
	mech. manual override	yes	yes	no
	Service switch	Standard	Standard	yes
	Position indicator	no	no	no
Hand wheel	no	no	no	



Flame-proof rotary and part-turn actuators

	Nano Ex M	Nano+ Ex S	Nano+ Ex M	CL Ex S
	Compact Line	Classic Line	Classic Line	Classic Line
	Switches/Cams	Switches/Cams	Switches/Cams	Switches/Cams
	Synchronous	Synchronous	Synchronous	Synchronous
	Standard	Standard	Standard	Standard
	no	no	no	no
	150°/100°	Multiturn	Multiturn	Multiturn
	no	no	no	no
	IP 65	IP 65	IP 65	IP 65
	30...60 Nm	5...20 Nm	30...60 Nm	2...40 Nm
	6...180 s/90°	3...60 s/90°	6...180 s/90°	0,8...120 s/90°
	24, 115, 230 V / 24 V	115, 230 V / 24 V	115, 230 V / 24 V	24, 115, 230 V / 24 V
	mechanical	electronical	electronical	mechanical
	2 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

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Linear motion drives/Damper actuator

	Linearis TE (Tensor)	Linearis N+ (Nano+)	Linearis CL	
Series	Intelligent Line	Classic Line	Classic Line	
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...1800 N	600...1800 N	600...3200 N	
Actuating time	0.7...3.3 mm/s	0.7...3.3 mm/s	1.7...6.7 mm/s	
Voltage AC/DC	85-265 V / plan	24, 115, 230 V / 24 V	24, 115, 230 V / 24 V	
OPTIONEN	Potentiometer	electrical	mechanical	mechanical
	add. switches	4 pcs. electrical	4 pcs.	6 pcs.
	Heating	automatisch	yes	yes
	Relais	yes	yes	yes
	Controller	PID controller	Position controller	Position controller
	Current output	yes	yes	yes
	Industrial bus	yes	no	no
	mech. manual override	yes	no	yes
	Service switch	Standard	yes	yes
	Position indicator	electrical	mechanical	mechanical
	Hand wheel	yes	yes	yes



Linear motion drives/Damper actuator

Flame-proof

	CL-H	Linearis TE Ex	Linearis N+ Ex	Linearis CL Ex
	Classic Line	Intelligent Line	Classic Line	Classic Line
	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...1800 N	600...1800 N	600...3200 N
	1.7...6.6 mm/s	0.7...3.3 mm/s	0.7...3.3 mm/s	1.7...6.7 mm/s
	24, 115, 230 V / 24 V	85-265 V / plan	115, 230 V / 24 V	24, 115, 230 V / 24 V
	mechanical	electronical	mechanical	mechanical
	6 pcs.	4 pcs. electronical	4 pcs.	6 pcs.
	yes	automatisch	yes	yes
	yes	yes	yes	yes
	Position controller	PID controller	Position controller	Position controller
	yes	yes	yes	yes
	no	yes	no	no
	yes	yes	no	no
	yes	Serie	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 connectors



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!



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.

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!



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:

Phone: 0049 2241 25186-16

Mail: aris@stellantriebe.de

Web: www.stellantriebe.de/muster



ARIS Stellantriebe GmbH