



AVAMO
ACTUATOR TECHNOLOGY | MADE IN GERMANY

Actuator Technology – Made in Germany



We offer **tailor-made solutions**
for your projects!



AVAMO is a brand of the company NTF Korfhage Maschinenbau GmbH. We offer individual solutions for actuators and control units designed for a variety of industrial applications.

- Scotch Yoke Actuators
- Linear Actuators
- Control Units

The diverse industrial applications of AVAMO products include the oil and gas industry as well as the chemical, petrochemical and power plant industry.

We offer competent and expert solutions based on decades of experience in the production of actuators. Our experience accompanied with advanced manufacturing technology and state-of-the-art-machines results in the highest standard of production which enables us to offer and provide our widely diversified range of services.



Scotch Yoke Actuators – ACSP-Range

- ≡ The AVAMO ACSP compact Scotch Yoke actuator provides high start and end torques. It has been developed for both on/off or modulating operations and is available as single- or double-acting version in a compact design.



FEATURES


 We have developed tailor-made control solutions to meet the needs of our customers worldwide.



Design:	Symmetric Scotch Yoke design
Control pressure	Air or dry sweet natural gas: 2 – 10 bar
Torque:	Up to 4500 Nm
Temperatur range:	-20° - +80°C (standard) -40° - +80°C (low temp) -60° - +80°C (extreme temp) -10° - +160°C (high temp)
Body:	Hard anodized aluminium body and powder coated end caps
Versions:	Double- or single acting
End stops:	Adjustable end stops +/- 5°
Options:	<ul style="list-style-type: none"> • Manual hand wheel (integrated in endcaps) • Epoxy coating • Fast stroking times • Fully automated
Certification:	<ul style="list-style-type: none"> • ATEX 94/9/EU • PED 2014/68/EU • Applicable up to SIL 3 as per 61508 • Machinery Directive 2006/42/EC • TR-TS approval

Scotch Yoke Actuators – ACP-Range

- The AVAMO ACP compact Scotch Yoke actuator has been developed for both on/off or modulating operations and is available as single- or double-acting version in a compact design. The design ensures the optimal performance to operate ball, butterfly and plug valves even in the harshest environmental conditions.



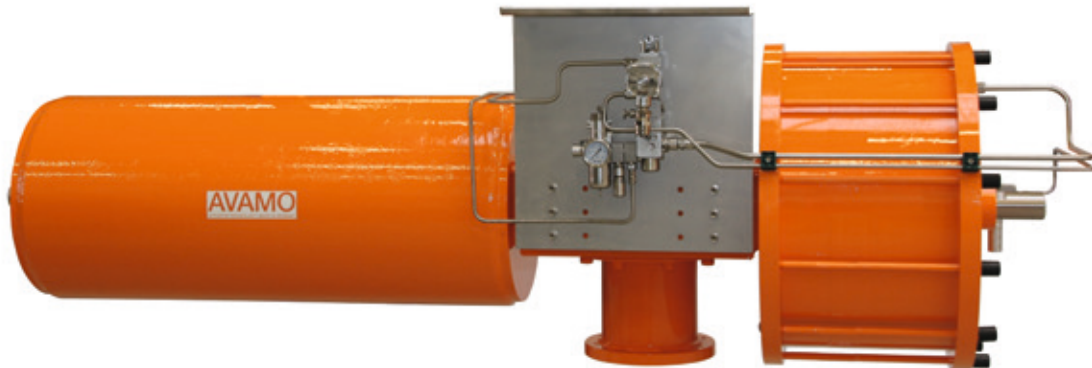
FEATURES

Design:	Symmetric Scotch Yoke design
Control pressure	Air or dry sweet natural gas: up to 12 bar
Torque:	Up to 4500 Nm
Temperatur range:	-30° - +110°C (standard) -40° - +160°C (low temp) -60° - +160°C (extreme temp) -20° - +160°C (high temp)
Body:	Maintenance free, corrosion protected cast iron construction
Cylinder:	Corrosion protected cylinder surface providing a long lifetime for gaskets
Versions:	Double- or single acting
End stops:	Adjustable leak free end stops +/- 5°

Options:	<ul style="list-style-type: none"> • Manual hand wheel (integrated in endcaps) • Fast stroking times • Fully automated • Custom paint specifications
Certification:	<ul style="list-style-type: none"> • ATEX 94/9/EU • PED 2014/68/EU • Applicable up to SIL 3 as per 61508 • Machinery Directive 2006/42/EC • TR-TS approval

Scotch Yoke Actuators – ASP/ASH-Range

- The AVAMO ASP / ASH heavy duty Scotch Yoke actuators have been developed for both on/off or modulating operations and are available as single- or double-acting version in a compact design. The design is based on a worldwide proven guiding system to ensure the optimum performance even in the harshest environmental conditions.



FEATURES



complete control solutions



a range of fireproof systems is available



Design:	Symmetric- or canted Scotch Yoke design
Control pressure	Air or dry sweet natural gas: up to 12 bar Hydraulic oil: up to 690 bar
Torque:	Up to 600.000 Nm
Temperatur range:	-30° - +110°C (standard) -40° - +160°C (low temp) -60° - +160°C (extreme temp) -20° - +160°C (high temp)
Body:	Maintenance free, corrosion protected welded construction
Cylinder:	Corrosion protected cylinder surface providing a long lifetime for gaskets
Versions:	Double- or single acting
End stops:	Adjustable and leak free end stops +/- 5°
Options:	<ul style="list-style-type: none"> • Manual hand pump • Fast stroking times • Fully automated • Custom paint specifications • PTFE coated Yoke system for modulating application • etc.
Certification:	<ul style="list-style-type: none"> • ATEX 94/9/EU • PED 2014/68/EU • Applicable up to SIL 3 as per 61508 • Machinery Directive 2006/42/EC • TR-TS approval

Scotch Yoke Actuators – ASEH-Range

- The AVAMO ASEH heavy duty self-contained electro-hydraulic Scotch Yoke actuators have been developed for both on/off or modulating operations and are available as single- or double-acting version. ASEH actuator solutions are used to operate ball, butterfly or plug valves for which only electrical power is available. Our standard version consists of a compact and maintenance-free design with a SMART Control Unit. The SMART Control Unit is ready for hardwired as well as for MODBUS or Profibus communication.



FEATURES

Design:	Compact Maintenance-free manifold design	Certification:	<ul style="list-style-type: none"> • ATEX 94/9/EU • PED 2014/68/EU • Applicable up to SIL 3 as per 61508 • Machinery Directive 2006/42/EC • TR-TS approval
Scotch Yoke design:	Symmetric- or Canted Scotch Yoke design	Standard:	<ul style="list-style-type: none"> • Stainless steel cabinet, tank and piping • Local / Remote mode • SMART Control • PST • Pressure alarm • Oil level protection • Manual hand pump • Modbus, Profibus or hardwired
Sealing System:	Lip Seals		
Cylinder:	Corrosion protected cylinder surface providing a long lifetime for gaskets	Options:	<ul style="list-style-type: none"> • Quick closing or opening • ESD application • HIPPS applications • Emergency strokes via bladder or piston type accumulator tanks according to PED, ASME or TR-TS
Supply Pressure:	Up to 350 bar		
Torque:	Up to 600.000 Nm		
Temperature range:	-30° - +80°C (standard) -40° - +65°C (low temp) -60° - +65°C (extreme temp)		
Power supply:	24VDC or 230 / 400 VAC		
Control voltage:	24, 110, 220VDC or 115, 230 VAC		
Electrical power consumption:	According project requirements		

Scotch Yoke Actuators – ASG-Range

- The AVAMO ASG Direct gas heavy duty Scotch Yoke actuators have been developed for on/off operations and are available as single- or double-acting version. ASG actuator solutions are used to operate ball or plug valves for which pipeline gas is used to operate the actuator. Our standard version consists of a compact and maintenance-free design and can be used in the Arabian desert or in Siberian steppes.



FEATURES

Design:	Compact Maintenance-free manifold design
Scotch Yoke design:	Symmetric- or canted Scotch Yoke design
Sealing System:	Lip Seals
Cylinder:	Corrosion protected cylinder surface providing a long lifetime for gaskets
Supply Pressure:	Up to 200 bar
Torque:	Up to 600.000 Nm
Temperature range:	-30° - +80°C (standard) -40° - +65°C (low temp) -60° - +65°C (extreme temp)
Control voltage:	24, 110, 220VDC or 115, 230 VAC
Electrical power consumption:	According project requirements

Certification:	<ul style="list-style-type: none"> • Certification ATEX 94/9/EU • PED 2014/68/EU • Applicable up to SIL 3 as per 61508 • Machinery Directive 2006/42/EC • TR-TS approval
Standard:	<ul style="list-style-type: none"> • Stainless steel cabinet and piping
Options:	<ul style="list-style-type: none"> • Manual hand pump • Line break monitoring (conventional or electrical) • High- or Low-pressure monitoring • Quick closing or opening • ESD application • PST • Sour gas version • Emergency strokes tank according to PED, ASME or TR-TS

Scotch Yoke Actuators – ASGO-Range

- The AVAMO ASGO Gas over oil heavy duty Scotch Yoke actuators have been developed for on/off operations and are available as double-acting version. ASGO actuator solutions are used to operate ball or plug valves for which pipeline gas is used to operate the actuator. Our standard version consists of a compact and maintenance-free design and can be used in the Arabian desert or in Siberian steppes. The double hand pump solution avoids any leakages between the cylinder chambers.



FEATURES

Design:	Compact Maintenance-free manifold
Scotch Yoke design:	Symmetric- or canted Scotch Yoke design
Sealing System:	Lip Seals
Cylinder:	Corrosion protected cylinder surface providing a long lifetime for gaskets
Supply Pressure:	Up to 200 bar
Torque:	Up to 600.000 Nm
Temperature range:	-30° - +80°C (standard) -40° - +65°C (low temp) -60° - +65°C (extreme temp)
Control voltage:	24, 110, 220VDC or 115, 230 VAC
Electrical power consumption:	According project requirements
Certification:	<ul style="list-style-type: none"> • ATEX 94/9/EU • PED 2014/68/EU • Applicable up to SIL 3 as per 61508 • Machinery Directive 2006/42/EC • TR-TS approval

Standard:	<ul style="list-style-type: none"> • Stainless steel cabinet and piping • Manual hand pump • Gas over oil tanks according to PED, ASME or TR-TS
Options:	<ul style="list-style-type: none"> • Line break monitoring (conventional or electrical) • High- or Low-pressure monitoring • ESD application • PST • Sour gas version • Emergency strokes tank according to PED, ASME or TR-TS

Linear Actuators – ALP/ALH-Range

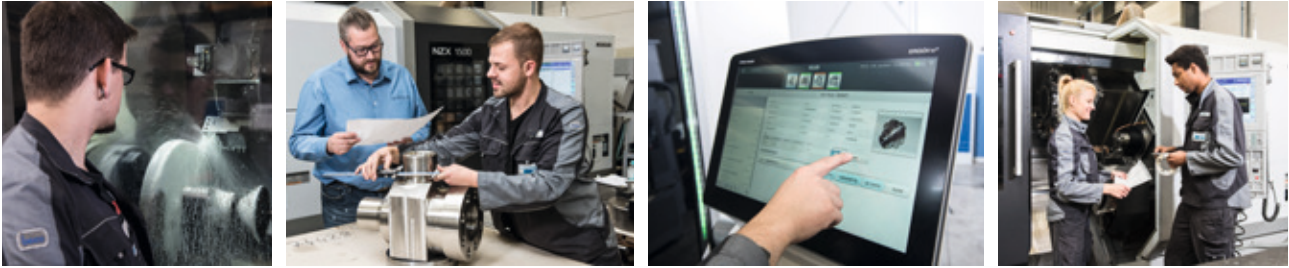
- AVAMO Linear actuators have been developed for both opening/closing functions or modulating operations. The design accommodates modular assembly and provides lasting durability with minimal service requirements.



FEATURES

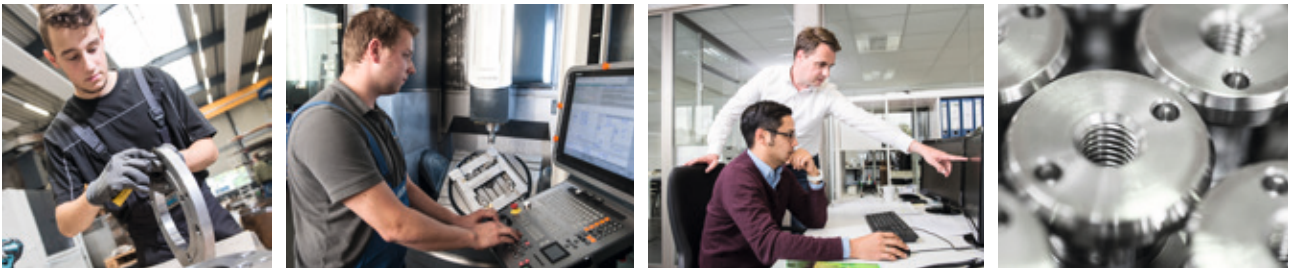
Design:	Piston Type
Control pressure:	Air or dry sweet natural gas: up to 12 bar Hydraulic oil: up to 350 bar Natural Gas: up to 200 bar
Thrust:	Up to 5.500.000 N
Temperature range:	-30° - +110°C (standard) -40° - +160°C (low temp) -60° - +160°C (extreme temp) -20° - +160°C (high temp)
Cylinder:	Corrosion protected cylinder surface providing a long lifetime for gaskets
Version:	Double- or single acting

Options:	<ul style="list-style-type: none"> • Manual hand wheel • Fast stroking times • Fully automated • Custom paint specifications • Adjustable and leak free end stops • etc.
Certification:	<ul style="list-style-type: none"> • ATEX 94/9/EU • PED 2014/68/EU • Applicable up to SIL 3 as per 61508 • Machinery Directive 2006/42/EC • TR-TS approval



Production

- Our modern, state of the art production guarantees the highest quality of our products and ensures also a fast reaction in case of changings during a project. Every step is totally integrated in our ERP-System and 100% trackable. We use more than 20 modern CNC lathe- and milling machines from very famous machine manufacturers like DMG Mori, SHW etc.



Quality

- Consistent quality control is crucial in our branch. This is why our entire manufacturing process is constantly being monitored by our employees using state of the art measuring devices. All products are subjected to 100 percent control.

- DIN ISO 9001:2015
- ATEX Zone 1
- up to SIL 3
- CU-TR 012/2011
- Pressure equipment directives 2014/68/EU
- Machinery Directive





Our Service

☰ Our experienced service technicians are available for a diverse variety of services worldwide:

- 24-hour service
- on-site installation and commissioning service
- spare parts management
- maintenance/maintenance contracts
- on-site training
- training in our in-house training centre

Our actuator brand ensures a high-quality service worldwide. In addition to our modern headquarter we have a network of well-known partners in China, Malaysia, Egypt, Russia etc.



contact us: service@avamo.eu



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