Valve automation



KTC-Systemtechnik your partner for actuation safety

quality ex proof electro hydraulic valve automation Compact

actuators quarter turn or linear hydraulic station with actuators development



KTC Systemtechnik GmbH

Your partner for valve automation



The pleasure of engineering and development of solutions for industrial automation was the initial incentive for KTC Systemtechnik. Klaus Seiler and Carsten Teichler, both experienced in the automation business for many years, established KTC Systemtechnik in 2010.

Our technical team consist of employees, experienced in electrical engineering, hydraulics, mechanical engineering as well as control engineering (PLC).



The company premisis for production and administration cover about 500m²

Since the founding of KTC, many interesting and large projects are realised. Our customers are valve manufacturer and engineering companies as well as end user from different areas like power stations, oil&gas, pipelines and chemical industries.

Our company objectives are the satisfaction of our customers, employees and business partners.

Hence, we develop our products and services continously. Regular professionel education is self-evident.



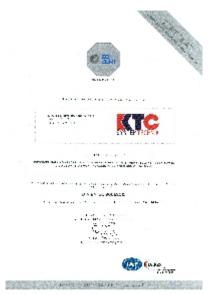


KTC Systemtechnik GmbH

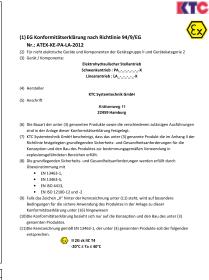
Quality

Safety

Hazardous areas



Set of Components/Component		Hydraulic Linear Actuator							
Туре		KTC-LA-y-yy-yy-E-T-y							
Manufacturer		KTC-Systemtechnik GmbH							
Component Type		Type A					Ref. IEC 61508-2		
		Low demand operation							
		Actuator moving in safe position in specified time with specified force							
Safe State		Actuator in safe position							
				-					
		Failure R	ates [failure						
Total failure rate		9.895							
Failure Rate Distribution	Laste	Lang	I dangerous detected		I dangerous undetected		doe't care	SFF [%]	
SUM (with Diagnosis)	9.751		0		144		5	99	
			Too'l is the erchitecture of a single set of components/component of the enalysed type.						
Architecture	10	001	Too'l is the archit	acture of a	single set of compo	nentsico	reponent of the an	dysed type.	
Hardware Fault		0		ne felleno he	es impact on the set				
Architecture Hardware Fault Tolerance HFT MTTR [h]			Due to HPT+0, or capability is respe	ne failure he acted in (2) required fo	es impact on the set	ely funci	ton. The influence	of HFT on SIL	
Hardware Fault Tolerance HFT	;	0	Due to HPT+0, or capability is respe- MITR is the time MITR has margin in case of mission implemented part Safe Fallus Frac	ne failure he acted in (2) required fo nal influence g automotic fail stroke to dion SFF in	es impact on the set below. If repair of the set of a on the pfd-rake. I diagnosis (e.g. part set, DG > 0% halos	comportal stroke depends C. Influe	ton. The influence rentationsponent is a testy DC = 0 %. Is on efficiency of p since of DC on St.	of HFT on SR, some of follows.	
Hardware Fault Tolerance HFT MTTR [h] Diagnostic Coverage DC	:	0 32 1%	Due to HFT+5, or capability is neeper MTTR is the time MTTR has reagile in case of mission implemented part Safe Failure Frac- componentations	ne fellere he acted in (2) required for nal influence g automotic plant shroke he ston SEF in sponent is no	to impect on the set below. If repair of the set of on the pid-salue. If diagnosis (i.e., pass into CO > ON (value creased by higher C respected in (2) below examples)	comportal stroke depends C. Influe	ton. The influence rentationsponent is a testy DC = 0 %. Is on efficiency of p since of DC on St.	of HFT on SIL. some of follows. In case of influences	
Hardware Fault Tolerance HFT MTTR [h] Diagnostic Coverage DC [%]	:	0 32 1%	Due to PFT=0, or capability is respectively in respective to the MTTR to the time MTTR to as end relation for case of relating templemental part components occurrence to make the properties of SIL Capa is no most populate.	ne fellere he acted in (2) required for nal influence g automatic flui shroke to don SFF in gonent is no billity (- closide of thi	to impect on the set below. If repair of the set of on the pid-salue. If diagnosis (i.e., pass into CO > ON (value creased by higher C respected in (2) below examples)	comportal stroke depends C. Influe	ton. The influence rentationsponent is a testy DC = 0 %. Is on efficiency of p since of DC on St.	of HFT on SIL. some of follows. In case of influences	
Hardware Fault Tolerance HFT MTTR [h] Disgnossic Coverage DC [N] Proof Test Interval PFD [HG] (800 11684 6022 km	Ver	0 32 1% rification o	Due to PET=0, or capability is respectively in respective to the series MTTR has rangin in case of rissian implemented participation and proportion of participation of participation of the proportion of the pro	reguled in (2) required for an influence of an influence of automotic fact of the foliance of	es impect on the set below. If report of the set of a on the p64-railue. If degroes (e.g., part excessed by higher (2 separated in (2) below examples) in pepel	comportal stroke depends C. Influe	from The Influence mentalcomponent is entarty DC = 0 %. a on efficiency of a seco of DC on Sil. PP.	of HPT on SIL, soss of Salure, r case of relative shock feet, rappability of the sat	
Hardwere Fault Tolerance HET MTTR [h] Disgnostic Coverage DC [Ni] Proof Test Interval PFD [wq.] (500 41504 6 0.2.2.1	Ver	o 32 1 % rification c (see commen	Due to PET=0, or capability is respectively in respective to the series MTTR has rangin in case of rissian implemented participation and proportion of participation of participation of the proportion of the pro	required in (2) required for not influence and influence and influence and influence are according to the state of the sponent is re- billity (biship of the state of the sta	eo impact on the set below. If repair of the set of so no the pfd-value. If deposit (if it produces to no the pfd-value. Indeposit (if it produces to no the pfd-value. Created by higher Cr	comportal stroke depends C. Influe	tion. The influence rental component is a safety DC = 0 to o safety DC = 0 to o safety OC on Sil Phy	of HPT on SIL, some of failure, some of failure, install should bed, capability of the set	
Hardware Fault Tolerance HFT MTTR [h] Diagnostic Coverage DC	Veil Voil Storn FMEDH)	o 32 ** ** ** ** ** ** ** ** **	Due to PET-10, or capability is respectively in respective to the time MTTR is the time MTTR has margin in case of rissing implemented part in part of the components occupant at the c	ne feture headed in (2) required for required for and influence of automotion and influence of automotion SFF in government is re- billity (- closide of the sear E-04 . 3	as impact on the set of the set of on the period of the set of on the pid-selax areas of the set of so the pid-selax areas of the set of the period of the set of the	ely kind compor compor lai strok depend C. Influe	ton. The influence tent to the influence a test; DC = 0 ts. s on efficiency of so son efficiency of so the total to the total the total son efficiency of so the total son efficiency of son the tota	of HPT on SIL, cose of folkers, rose of folkers, rose of rise shoke heat), capability of the sec. 5 years 3,16 E-00	



Формалисти

European and international norms and directives are the guidline for a quality system. We understand the use of these rules as a helpful guide for our corporate divisions.

Compliance with standards ensures consistent and internationally recognised quality.

Our products comply with current standards and guidelines. Out of our own conviction and as proof of quality for our customers and suppliers, we are certified according to EN ISO 9001:2015

Norms and directives:

- ATEX 2014/34/EU
- DIN EN 13463
- 2006/42/EG
- EN ISO 12100
- EN ISO 13849
- EN ISO 4413
- DIN EN 61511-1
- ISO 9001: 2015



Valve automation

Electro hydraulic



Hydraulic valve block of actuator type PA

Extremely high force potential, precise control, high power transmission and high speed are the common advantages of hydraulic systems. In addition, fewer moving parts reduces wear out and cut maintenance.

The combination of high performance valves and open and close loop control electronics enables a very accurate positioning at high load and high speed. With these requirements, electric or pneumatic actuators dropped out.

The high power density of hydraulic systems allows a very compact design of actuators and power packs.

We develop and deliver all ranges of actuators for valve control. We have a large range of compact actuators for linear and quarter turn applications as well as large power units to run many actuators with on pressure supply only.

Engineering, design, assembly and testing carried out in our Hamburg location.



KTC Compact actuator at temperature test



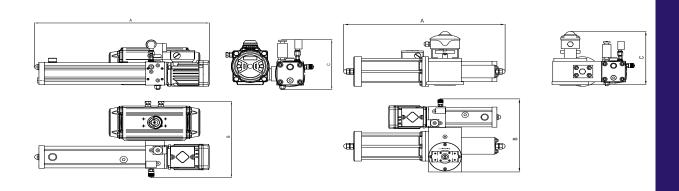
Compact actuators

1/4 turn actuators Linear actuators



In general, our compact actuators are to operate similar to electric actuators. Electric connections are power supply for pump motor and limit switch control only. In case of spring return, the actuator comes with a 24VDC/230VAC solenoid valve.

With the block design, no hydraulic connections are visible.



Due to modular design, the KTC power pack can be used for all different types of actuators.

The advantages of KTC actuators:

High speed

Safety/Fail-Safe (at power failure)

High torque and thrust

Accuracy

Avoidance of water hammer









Industrieautomation · Steuerungstechnik · Stellantriebe Industrial Automation · Engineering · Valve Automation



KTC Systemtechnik GmbH Krähenweg 11 22459 Hamburg

Tel.: 040/5714 752-0 Fax: 040/5714 752-22 info@ktc-systemtechnik.de www.ktc-systemtechnik.de





