

Shanghai Inspection and Testing Institute of Instrumentation and Automatic Systems

Address: 103 Caobao Road Shanghai, P.R. of China

Tel: 86 21 64368180 Fax: 86 21 64849355

Website: www.sitiias.com.cn

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CERTIFICATE OF COMPLIANCE

Certificate No.: CFS14117

Manufacturer: WUXI ST.HANS AIR CONTROLS E/I CO., LTD.

Address: No.48 Xihong Rd., Meicun Industrial Park, New Area, Wuxi, China

Applicant: WUXI ST.HANS AIR CONTROLS E/I CO., LTD.

Address: No.48 Xihong Rd., Meicun Industrial Park, New Area, Wuxi, China

Product : Dual Piston Rack and Pinion Pneumatic Actuator

Model: A, B, C, D, U

Description: A, B, C, D, U series actuator is Dual Piston Rack and Pinion Pneumatic Actuator with rotary stem motion type. The safety function of A, B, C, D, U series pneumatic actuator is performed by spring's elastic force, which provides safety function "close" when the actuator is kept in open position by pressure in pneumatic cylinder, and safety function "open" when the actuator is kept in closed position by pressure in pneumatic cylinder.

Standards: IEC61508:2010 Functional safety of electrical/electronic/programmable electronic safety-related systems (Part 1,Part 2,)

Conclusion: The A, B, C, D, U Dual Piston Rack and Pinion Pneumatic Actuator that is classified as a Type A device can be used up to SIL 3 as a single device according to IEC 61508.

λS	λDU	λDD	$\lambda TOTAL$	SFF	PFD(T1=1Year)
491.7	20.0	0.0	511.7	96.1%	1.752×10^{-4}

Note: The failure rate unit is Fit, 1Fit= 1×10^{-9}

Other explanation: Proof test should be performed according to User Manual.



Authorized Signatory :

A handwritten signature in black ink, appearing to read 'Guo Sih'.

National Quality Supervision and Inspection Center
for Products of Process Automation Instrumentation

Date of Issue: Jun. 30, 2014

Note:

Test Report Number C14-076-WT is integral parts of this certificate. This Certificate is valid for products compatible with the documents and samples approved by SITIIAS. The documents and sample are kept by SITIIAS.

This Approval shall remain in force until 2019.06.29