

**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

**SITIIAS**

## 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.

$\lambda S$	$\lambda DU$	$\lambda DD$	$\lambda TOTAL$	SFF	PFD(T1=1Year)
491.7	20.0	0.0	511.7	96.1%	$1.752 \times 10^{-4}$

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

**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