



Certificate no. TAI-FS-C-24-0066 Rev. 02

WE HEREBY CERTIFY THAT

Product description PNEUMATIC SCOTCH-YOKE SPRING RETURN AND
DOUBLE ACTING ACTUATOR

Models SERIES GP/S, GP/D

Manufacturer Rotork Flow Technology (Suzhou) Co., Ltd.
Building A, No. 88 Yinhe Road
Southeast Street, Changshu, Jiangsu 215558
People's Republic of China

IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE STANDARDS

IEC 61508 Parts 1–7:2010

AS RESULT OF THE ASSESSMENT ACCORDING TO THE PROVISION
SET OUT IN THE ABOVE-MENTIONED STANDARDS

Summary Report no. TAI-FS-R-24-0131 Rev. 02

Expiry date 13.06.2027

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TUV AUSTRIA ITALIA
08.01.2025, Monte Roberto (AN)

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Annex to certificate no. TAI-FS-C-24-0066 Rev. 02

Type	A
HFT	0
Safety functions	<u>Spring return actuators:</u> 1. Delivery of a full stroke ($90^\circ \pm$ tolerance) driven by the spring, with power fluid exhausted from the cylinder through the control system <u>Double acting actuators:</u> 1. Delivery of a full stroke ($90^\circ \pm$ tolerance) driven by the piston of cylinder, powered by the specified medium working pressure
Mode of operation	Low Demand Mode

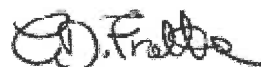
Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
Series GP/S - No PST	1	6,01E-09	0,00E+00	0,00E+00
Series GP/S - With PST	1	5,41E-10	5,47E-09	0,00E+00
Series GP/D - No PST	1	1,12E-08	0,00E+00	0,00E+00
Series GP/D - With PST	1	1,01E-09	1,02E-08	0,00E+00

Systematic capability	3 (Route 1s applied)			
Architectural constraints	Route 1_H:	Applied	Route 2_H:	Applied
	The product can be used in: <ul style="list-style-type: none"> • single channel configuration: <ul style="list-style-type: none"> ○ up to SIL 2 without external diagnostic tests ○ up to SIL 3 considering external diagnostic tests • double channel configuration: up to SIL 3 			

- Remarks:**
- For further details, including environmental conditions, limitations of use, lifetime, failure rates traceability, mean repair times, common cause factors and systematic capability constraints, make reference to Safety Manual SM-GP-A-02-E

END OF CERTIFICATE

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