



Certificate no. TAI-FS-C-22-0041 Rev. 01

WE HEREBY CERTIFY THAT

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

Models SERIES RC

Manufacturer ROTORK SWEDEN AB
Kontrollvägen, 15
791 22 Falun
Sweden

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-22-0083 Rev. 01

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TÜV AUSTRIA ITALIA - Blu Solutions s.r.l.
20.03.2023, Monte Roberto (AN)

Page 1 of 2

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Annex to certificate no. TAI-FS-C-22-0041 Rev. 01

Type	A
HFT	0
Safety functions	<u>Spring return actuators:</u> 1. Delivery of a full stroke (90° ± 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° ± tolerance) driven by the piston of cylinder, powered by the specified medium working pressure
Mode of operation	High Demand Mode

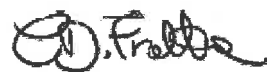
Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
RC spring return - No on-line monitoring	1	8,52E-08	0,00E+00	0,00E+00
RC spring return - With on-line monitoring	1	7,66E-09	7,75E-08	0,00E+00
RC88 spring return - No on-line monitoring	1	6,53E-08	0,00E+00	0,00E+00
RC88 spring return - With on-line monitoring	1	5,88E-09	5,95E-08	0,00E+00
RC double acting - No on-line monitoring	1	2,61E-08	0,00E+00	0,00E+00
RC double acting - With on-line monitoring	1	2,35E-09	2,37E-08	0,00E+00
RC88 double acting - No on-line monitoring	1	3,49E-08	0,00E+00	0,00E+00
RC88 double acting - With on-line monitoring	1	3,15E-09	3,18E-08	0,00E+00

Systematic capability	3 (Route 1s applied)			
Architectural constraints	Route 1H:	Applied	Route 2H:	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 1 without on-line monitoring by the process ○ up to SIL 3 considering on-line monitoring by the process • 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-RC-A-00-E.

END OF CERTIFICATE



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