



**Certificate no. TAI-FS-C-25-0052**

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

**Assessment report no. TAI-FS-R-25-0053**

**Expiry date** 17.12.2028

**Issue date** 18.12.2025

TUV AUSTRIA ITALIA  
18.12.2025, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

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## Annex to certificate no. TAI-FS-C-25-0052

<b>Type</b>	A
<b>HFT</b>	0
<b>Safety functions</b>	<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
<b>Mode of operation</b>	High Demand Mode

Random failure rates				
Configuration	Safety function	$\lambda_{DU}$ [1/h]	$\lambda_{DD}$ [1/h]	$\lambda_S$ [1/h]
Series RC spring return - No on-line monitoring	1	1,39E-08	0,00E+00	0,00E+00
Series RC spring return - With on-line monitoring	1	1,25E-09	1,27E-08	0,00E+00
Series RC88 spring return - No on-line monitoring	1	2,35E-08	0,00E+00	0,00E+00
Series RC88 spring return - With on-line monitoring	1	2,12E-09	2,14E-08	0,00E+00
Series RC double acting - No on-line monitoring	1	1,40E-08	0,00E+00	0,00E+00
Series RC double acting - With on-line monitoring	1	1,26E-09	1,27E-08	0,00E+00
Series RC88 double acting - No on-line monitoring	1	2,36E-08	0,00E+00	0,00E+00
Series RC88 double acting - With on-line monitoring	1	2,13E-09	2,15E-08	0,00E+00

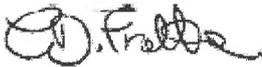
<b>Systematic capability</b>	3 (Route 1s applied)			
<b>Architectural constraints</b>	<b>Route 1<sub>H</sub>:</b>	Applied	<b>Route 2<sub>H</sub>:</b>	Applied
	The product can be used in: <ul style="list-style-type: none"> <li>• single channel configuration:                             <ul style="list-style-type: none"> <li>○ up to SIL 1 without on-line monitoring by the process</li> <li>○ up to SIL 3 considering on-line monitoring by the process</li> </ul> </li> <li>• double channel configuration: up to SIL 3</li> </ul>			

**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 DOK-000165

END OF CERTIFICATE

TUV AUSTRIA ITALIA  
18.12.2025, Monte Roberto (AN)

  
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