



C E R T I F I C A T E

Certificate no. 17-SIL-0010061-03-TIC

WE HEREBY CERTIFY THAT

Product description

**PNEUMATIC / HYDRAULIC COMPACT SCOTCH-YOKE
SPRING RETURN ACTUATORS**

Models

SERIES RC

Manufacturer

**ROTORK SWEDEN AB
Kontrollvägen, 15 - SE-791 22 Falun**

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. RC-0919-SIL-TIC-PC-0010061-17-02

Expiry date

12.09.2022

Note

This certificate is issued upon the request of the manufacturer as voluntary certification; it does not include the production surveillance.
This certificate does not allow the manufacturer to use the safety mark of TÜV INTERCERT.



Reggio Emilia, 13.09.2019


Dipl. Ing. Feridoon Sergizzarea
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ANNEX to Certificate no. 17-SIL-0010061-03-TIC

Type	A
HFT	0
Safety functions	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
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 - No on-line monitoring	1	4,65E-08	0,00E+00	0,00E+00
RC - With on-line monitoring	1	4,18E-09	4,23E-08	0,00E+00
RC88 - No on-line monitoring	1	4,57E-08	0,00E+00	0,00E+00
RC88 - With on-line monitoring	1	4,12E-09	4,16E-09	0,00E+00

Systematic capability	3 (Route 1 _s 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 testsup to SIL 3 considering external diagnostic testsdouble 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

Reggio Emilia, 13.09.2019


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