

CERTIFICATE ■ CERTIFICATO ■ ZERTIFIKAT ■ SERTIFIKA ■ CERTIFICADO ■ گواهینامه ■ ΠΙΣΤΟΠΟΙΗΤΙΚΟ ■ شهادة ■ 証明書 ■ 證明 ■ 인증서



C E R T I F I C A T E

Certificate no. 17-SIL-0010061-04-TIC

WE HEREBY CERTIFY THAT

Product description

**PNEUMATIC / HYDRAULIC COMPACT SCOTCH-YOKE
DOUBLE ACTING 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-0010061-17-04

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
TÜV INTERCERT Certification Body

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C E R T I F I C A T E

ANNEX to Certificate no. 17-SIL-0010061-04-TIC

Type	A
HFT	0
Safety functions	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	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	1,45E-08	0,00E+00	0,00E+00
RC - With on-line monitoring	1	1,30E-09	1,32E-08	0,00E+00
RC88 - No on-line monitoring	1	2,62E-08	0,00E+00	0,00E+00
RC88 - With on-line monitoring	1	2,36E-09	2,39E-08	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 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-RC-A-00-E.

END OF CERTIFICATE

Reggio Emilia, 13.09.2019


 Dipl. Ing. Feridoon Sergizzarea
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