



Certificate no. TAI-FS-C-25-0019

WE HEREBY CERTIFY THAT

Product description Hydraulic compact helical slot spring return actuator

Models Series CQH

Manufacturer Rotork Fluid Systems S.r.l.
Via Padre Jacques Hamel 138/B
I-55016 Porcari (LU)

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
THE PRODUCT MEETS ALSO THE REQUIREMENTS OF STANDARD
EN 17955:2024

Assessment report no. TAI-FS-R-25-0019

Expiry date 03.07.2028

Issue date 04.07.2025

TUV AUSTRIA ITALIA
04.07.2025, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

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Annex to certificate no. TAI-FS-C-25-0019

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	Low Demand Mode

Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
Series CQH - No PST	1	2,45E-08	0,00E+00	0,00E+00
Series CQH - With PST	1	2,21E-09	2,23E-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: - single channel configuration: - 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-CQH-A-01-E

END OF CERTIFICATE

TUV AUSTRIA ITALIA
04.07.2025, Monte Roberto (AN)


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