

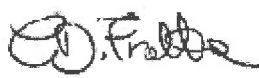


Certificate no.

TAI-FS-C-25-0020

	WE HEREBY CERTIFY THAT
Product description	Pneumatic compact helical slot spring return and double acting actuator
Models	Series CQP/S, CQP/D
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-25-0020
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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TÜV AUSTRIA HOLDING AG Deutschstrasse 10, A-1230, Vienna, Austria
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Annex to certificate no. TAI-FS-C-25-0020

Type	A
HFT	0
Safety functions	<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
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 CQP/S - No PST	1	2,41E-08	0,00E+00	0,00E+00
Series CQP/S - With PST	1	2,17E-09	2,20E-08	0,00E+00
Series CQP/D - No PST	1	4,60E-08	0,00E+00	0,00E+00
Series CQP/D - With PST	1	4,14E-09	4,19E-08	0,00E+00

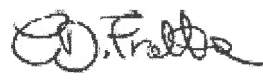
Systematic capability	3 (Route 1 _s applied)			
Architectural constraints	Route 1_H:	Applied	Route 2_H:	Applied
	The product can be used in: - single channel configuration: - up to SIL 2 without external diagnostic tests - up to SIL 3 considering external diagnostic tests - double channel configuration: 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-CQP-A-01-E

END OF CERTIFICATE

TUV AUSTRIA ITALIA
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