



Certificate no. TAI-FS-C-25-0022

WE HEREBY CERTIFY THAT

Product description Hydraulic linear spring return and double acting actuator

Models Series LH/S, LH/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

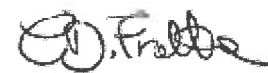
AS RESULT OF THE ASSESSMENT ACCORDING TO THE
PROVISION SET OUT IN THE ABOVE-MENTIONED STANDARDS
THE PRODUCT MEETS ALSO THE REQUIREMENTS OF STANDARD
EN 17955:2024

Assessment report no. TAI-FS-R-25-0022

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-25-0022

Type	A
HFT	0
Safety functions	1. Stem extended upon the demand of the actuation system 2. Stem retracted upon the demand of the actuation 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]
Model LH/SD - No PST	1	6,01E-08	0,00E+00	0,00E+00
Model LH/SD - With PST	1	6,01E-09	5,41E-08	0,00E+00
Model LH/SU - No PST	2	6,01E-08	0,00E+00	0,00E+00
Model LH/SU - With PST	2	6,01E-09	5,41E-08	0,00E+00
Model LH/FD - No PST	1	6,63E-08	0,00E+00	0,00E+00
Model LH/FD - With PST	1	6,63E-09	5,97E-08	0,00E+00
Model LH/FU - No PST	2	6,63E-08	0,00E+00	0,00E+00
Model LH/FU - With PST	2	6,63E-09	5,97E-08	0,00E+00

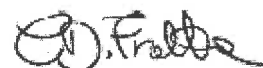
Systematic capability	3 (Route 1s applied)			
Architectural constraints	Route 1_H:	Applied	Route 2_H:	Applied
	The product can be used in: - single channel configuration: - up to SIL 2 without external diagnostic tests - up to SIL 3 considering external diagnostic tests - double channel configuration: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

Remarks:

- The above random failure rates values are worst-case values for all the possible configurations
- 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-LH-A-01-E

END OF CERTIFICATE

TUV AUSTRIA ITALIA
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