



Certificate no. TAI-FS-C-21-0038

WE HEREBY CERTIFY THAT

Product description HYDRAULIC RACK AND PINION SPRING RETURN ACTUATOR
Models SERIES RHM
Manufacturer SERVOVALVE S.p.A.
Via Giotto 29
I-20145 Milano (MI)

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. TAI-FS-R-21-0075

Expiry date 14.04.2024

Issue date 15.04.2021

TÜV AUSTRIA ITALIA - Blu Solutions s.r.l.
15.04.2021, Monte Roberto (AN)

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Annex to certificate no. TAI-FS-C-21-0038

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]
RHM - No PST	1	4,99E-08	0,00E+00	0,00E+00
RHM - With PST	1	4,49E-09	4,54E-08	0,00E+00

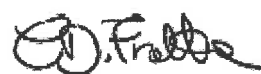
Systematic capability	3 (Route 1s applied)			
Architectural constraints	Route 1_H:	Applied	Route 2_H:	Applied
	The product can be used in: <ul style="list-style-type: none"> • single channel configuration: <ul style="list-style-type: none"> ○ up to SIL 2 without external diagnostic tests ○ up to SIL 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-09.

END OF CERTIFICATE

TÜV AUSTRIA ITALIA - Blu Solutions s.r.l.
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