



Certificate no. TAI-FS-C-21-0035

WE HEREBY CERTIFY THAT

Product description HYDRAULIC LINEAR SPRING RETURN ACTUATOR

Models SERIES HC, HA

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-21-0069

Expiry date 14.04.2024

Issue date 15.04.2021

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15.04.2021, Monte Roberto (AN)

Page 1 of 2

Ing. Crescenzo Di Fratta

Annex to certificate no. TAI-FS-C-21-0035

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]
HC - No PST	1	3,24E-08	0,00E+00	0,00E+00
HC - With PST	1	2,92E-09	2,95E-08	0,00E+00
HA - No PST	2	3,31E-08	0,00E+00	0,00E+00
HA - With PST	2	2,98E-09	3,02E-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-08.

END OF CERTIFICATE

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