



Certificate no. TAI-FS-C-22-0038

WE HEREBY CERTIFY THAT

Product description HYDRAULIC LINEAR SPRING RETURN AND DOUBLE ACTING ACTUATOR

Models SERIES LAHS, LAH

Manufacturer DVG AUTOMATION S.p.A.
Via Giacomo Rossetti 2
I-29016 Cortemaggiore (PC)

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-22-0078

Expiry date 26.07.2025

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TÜV AUSTRIA ITALIA - Blu Solutions s.r.l.
27.07.2022, Monte Roberto (AN)

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Cod. Id. CEE IT02217380423 REA AN n. 170070
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Annex to certificate no. TAI-FS-C-22-0038

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]
LAHS - No PST	1	2,36E-08	0,00E+00	0,00E+00
LAHS - With PST	1	2,12E-09	2,14E-08	0,00E+00
LAHS - No PST	2	2,38E-08	0,00E+00	0,00E+00
LAHS - With PST	2	2,14E-09	2,16E-08	0,00E+00
LAH - No PST	1	4,32E-08	0,00E+00	0,00E+00
LAH - With PST	1	3,89E-09	3,93E-08	0,00E+00
LAH - No PST	2	4,32E-08	0,00E+00	0,00E+00
LAH - With PST	2	3,89E-09	3,93E-08	0,00E+00

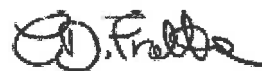
Systematic capability	3 (Route 1s applied)			
Architectural constraints	Route 1_H:	Applied	Route 2_H:	Applied
	The product can be used in: - single channel configuration: - up to SIL 2 without external diagnostic tests - up to SIL 3 considering external diagnostic tests - double channel configuration: 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 Manuals SCTD-SM-LAHS-01, SCTD-SM-LAH-01.

END OF CERTIFICATE

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