



Certificate no. TAI-FS-C-23-0012

WE HEREBY CERTIFY THAT

Product description PNEUMATIC LINEAR SPRING RETURN AND DOUBLE ACTING ACTUATOR

Models SERIES GVO-G

Manufacturer EMERSON AUTOMATION SOLUTIONS
Valve Automation, Inc.
19200 Northwest Freeway
Houston, Texas 77065
USA

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-23-0026

Expiry date 05.04.2026

Issue date 06.04.2023

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06.04.2023, Monte Roberto (AN)

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Annex to certificate no. TAI-FS-C-23-0012

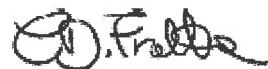
Type	A
HFT	0
Safety functions	1. Stem extended upon the demand of the actuation system 2. Stem retracted upon the demand of the actuation system
Mode of operation	Low Demand Mode

Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_s [1/h]
GVO-G spring return - No PST	1	8,82E-08	0,00E+00	0,00E+00
GVO-G spring return - With PST	1	7,94E-09	8,03E-08	0,00E+00
GVO-G spring return - No PST	2	9,24E-08	0,00E+00	0,00E+00
GVO-G spring return - With PST	2	8,32E-09	8,41E-08	0,00E+00
GVO-G double acting - No PST	1	9,80E-08	0,00E+00	0,00E+00
GVO-G double acting - With PST	1	8,82E-09	8,92E-08	0,00E+00
GVO-G double acting - No PST	2	1,02E-07	0,00E+00	0,00E+00
GVO-G double acting - With PST	2	9,20E-09	9,30E-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 VA-DC-000-2055

END OF CERTIFICATE



Ing. Crescenzo Di Fratta

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 Cod. Id. CEE IT02217380423 REA AN n. 170070
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