



Certificate no. TAI-FS-C-23-0053

WE HEREBY CERTIFY THAT

Product description

**GAS OVER OIL BAR YOKE QUARTER TURN DOUBLE
ACTING ACTUATOR**

Models

SERIES BYO

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-23-0105

Expiry date 09.10.2026

Issue date 10.10.2023

TUV AUSTRIA ITALIA
10.10.2023, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

TUV AUSTRIA ITALIA S.p.A.

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C.F./P. IVA IT01055750333 - Cap. Soc. i.v. € 400.000,00 - REA AN n. 211030
Società a socio unico, soggetta a controllo e coordinamento di:
TÜV AUSTRIA HOLDING AG Deutschstrasse 10, A-1230, Vienna, Austria
www.tuvaustriaitalia.com

Annex to certificate no. TAI-FS-C-23-0053

Type	A
HFT	0
Safety functions	1. Delivery of a full stroke ($90^\circ \pm$ tolerance) driven by the piston of cylinder, powered by the specified medium working pressure
Mode of operation	Low Demand Mode

Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
BYO - No PST	1	3,82E-08	0,00E+00	0,00E+00
BYO - With PST	1	3,44E-09	3,48E-08	0,00E+00

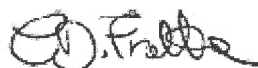
Systematic capability	3 (Route 1s applied)			
Architectural constraints	Route 1 _H :	Applied	Route 2 _H :	Applied
	The product can be used in: - single channel configuration: - up to SIL 2 without external diagnostic tests - up to SIL 3 considering external diagnostic tests - double channel configuration: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

END OF CERTIFICATE

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