



C E R T I F I C A T E

Certificate no. 17-SIL-0010009-23-TIC

WE HEREBY CERTIFY THAT

Product description HYDRAULIC SCOTCH YOKE QUARTER TURN DOUBLE ACTING ACTUATORS

Models SERIES QTH

Manufacturer DVG AUTOMATION S.p.A.
Via G. Rossetti 2 - 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. RC-1118-SIL-TIC-PC-0010009-17-38

Expiry date 20.11.2021

Note

This certificate is issued upon the request of the manufacturer as voluntary certification; it does not include the production surveillance.
This certificate does not allow the manufacturer to use the safety mark of TÜV INTERCERT.



Reggio Emilia, 21.11.2018

Dipl. Ing. Feridoon Sergizzarea
TÜV INTERCERT Certification Body



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ANNEX to Certificate no. 17-SIL-0010009-23-TIC

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]
QTH - No PST	1	4,04E-08	0,00E+00	0,00E+00
QTH - With PST	1	3,63E-09	3,67E-08	0,00E+00

Systematic capability	3 (Route 1 _S 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 testsup to SIL 3 considering external diagnostic testsdouble 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-S.-QTH-01.

END OF CERTIFICATE

Reggio Emilia, 21.11.2018


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