



Certificate no. TAI-FS-C-21-0018

WE HEREBY CERTIFY THAT

Product description HYDRAULIC QUICK EXHAUST VALVE
Models SERIES AQEH...0...; AQEH...H...; AQEH...P...
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-21-0035

Expiry date 07.02.2024

Issue date 08.02.2021

08.02.2021, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

Annex to certificate no. TAI-FS-C-21-0018

Type	A
HFT	0
Safety functions	<ol style="list-style-type: none"> De-energize-to-trip operation: application to single acting actuators or to vent a chamber of a double acting actuator Energize-to-trip operation: to feed a chamber of a double acting actuator
Mode of operation	Low Demand Mode

Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
AQEH...0...; AQEH...H...; AQEH...P... - No PST	1	2,87E-08	0,00E+00	1,26E-07
AQEH...0...; AQEH...H...; AQEH...P... - With PST	1	2,87E-10	2,84E-08	1,26E-07
AQEH...0...; AQEH...H...; AQEH...P... - No PST	2	3,67E-08	0,00E+00	0,00E+00
AQEH...0...; AQEH...H...; AQEH...P... - With PST	2	3,67E-10	3,64E-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 17_001.

END OF CERTIFICATE

