ZERTIFIKAT | CERTIFICATE | CERTIFICAT | CERTIFICADO | СЕРТИФИКАТ | شهادة | 证书 | 인증서

TÜV AUSTRIA

Certificate no. TAI-FS-C-21-0021

WE HEREBY CERTIFY THAT

Product description **HYDRAULIC QUICK LOAD VALVE**

Models **SERIES AQEH…F…; AQEH…J…; 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-21-0041**

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-21-0021

Type	A
HFT	0
Safety functions	1. De-energize-to-trip operation: to deliver a full stroke of the spool on pilot pressure fall, to feed a chamber of the actuator, to drive the actuator to its defined safe state
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...F...; AQEH...J...; AQEH...P... - No PST	1	2,22E-08	0,00E+00	1,12E-07
AQEH...F...; AQEH...J...; AQEH...P... - With PST	1	2,22E-10	2,20E-08	1,12E-07

Systematic capability	**3** (Route 1_S applied)			
Architectural constraints	**Route 1_H:**	Applied	**Route 2_H:**	Applied
	The product can be used in: • single channel configuration: o up to SIL 2 without external diagnostic tests o 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

08.02.2021, Monte Roberto (AN)

Ing. Crescenzo Di Fratta