



**Certificate no. TAI-FS-C-22-0037**

WE HEREBY CERTIFY THAT

**Product description** PNEUMATIC QUICK EXHAUST VALVE

**Models** SERIES AQEP

**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-22-0076**

**Expiry date** 26.07.2025

**Issue date** 27.07.2022

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27.07.2022, Monte Roberto (AN)

Page 1 of 2

Ing. Crescenzo Di Fratta

## Annex to certificate no. TAI-FS-C-22-0037

<b>Type</b>	A
<b>HFT</b>	0
<b>Safety functions</b>	1. De-energize-to-trip operation: to discharge a chamber of a pneumatic actuator
<b>Mode of operation</b>	Low Demand Mode

Random failure rates				
Configuration	Safety function	$\lambda_{DU}$ [1/h]	$\lambda_{DD}$ [1/h]	$\lambda_S$ [1/h]
AQEPYZW00XX - No PST	1	2,10E-09	0,00E+00	3,40E-08
AQEPYZW00XX - With PST	1	2,10E-11	2,08E-09	3,40E-08
AQEPYZW0DXX - No PST	1	2,66E-09	0,00E+00	4,23E-08
AQEPYZW0DXX - With PST	1	2,66E-11	2,63E-09	4,23E-08

<b>Systematic capability</b>	3 (Route 1s applied)			
<b>Architectural constraints</b>	<b>Route 1H:</b>	Applied	<b>Route 2H:</b>	Applied
	The product can be used in single channel configuration up to SIL 3			

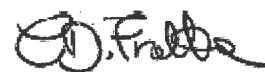
**Remarks:**

- 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-QEV-01.

*END OF CERTIFICATE*

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Page 2 of 2



Ing. Crescenzo Di Fratta

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 Cod. Id. CEE IT02217380423 REA AN n. 170070  
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