



Certificate no.

TAI-FS-C-21-0019

WE HEREBY CERTIFY THAT

Product description 2/2 HYDRAULIC VALVE

Models SERIES APDH...0...; APDH...S...

DVG AUTOMATION S.p.A.

Manufacturer 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-21-0037

**Expiry date** 07.02.2024

*Issue date* 08.02.2021

08.02.2021, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

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## Annex to certificate no. TAI-FS-C-21-0019

Туре	A
HFT	0
Safety functions	<ol> <li>De-energize-to-trip operation: application to single acting actuators or to vent a chamber of a double acting actuator</li> <li>Energize-to-trip operation: to feed a chamber of a double acting actuator</li> </ol>
Mode of operation	Low Demand Mode

Random failure rates							
Configuration	Safety function	λ <sub>DU</sub> [1/h]	λ <sub>DD</sub> [1/h]	λ <sub>S</sub> [1/h]			
APDH.:.0 No PST	1	2,85E-08	0,00E+00	4,27E-07			
APDH0 With PST	1	2,85E-10	2,82E-08	4,27E-07			
APDHS No PST	1	2,95E-08	0,00E+00	7,48E-08			
APDHS With PST	1	2,95E-10	2,92E-08	7,48E-08			
APDHS No PST	2	4,82E-08	0,00E+00	0,00E+00			
APDHS With PST	2	4,82E-10	4,77E-08	0,00E+00			

Systematic capability	3 (Route 1 <sub>s</sub> applied)					
	Route 1 <sub>H</sub> :	Applied	Route 2 <sub>H</sub> :	Applied		
Architectural constraints	• single ch		L 3 out external diagnosti idering external diagi			

## 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 17 002.

**END OF CERTIFICATE** 

Ing. Crescenzo Di Fratta