



Certificate no. TAI-FS-C-20-0010

WE HEREBY CERTIFY THAT

Product description SPRING RETURN PNEUMATIC VALVE
Models SERIES APD
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-20-0021

Expiry date 28.04.2023

Issue date 29.04.2020

29.04.2020, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

Annex to certificate no. TAI-FS-C-20-0010

Type	A
HFT	0
Safety functions	1. De-energize-to-trip operation: to discharge a chamber of a single acting pneumatic 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]
APD - No PST	1	2,38E-08	0,00E+00	3,67E-08
APD - With PST	1	2,38E-10	2,35E-08	3,67E-08

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 SCTD-SM-APD-01.

END OF CERTIFICATE

