



Certificate no. TAI-FS-C-20-0009

WE HEREBY CERTIFY THAT

Product description PNEUMATIC BOOSTER

Models SERIES ABS

**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-20-0019

Expiry date 28.04.2023

Issue date 29.04.2020

29.04.2020, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

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Annex to certificate no. TAI-FS-C-20-0009

Type	A
HFT	0
Safety functions	<ol style="list-style-type: none"> 1. De-energize-to-trip operation: to discharge a chamber of a single acting or double acting pneumatic actuator 2. Energize-to-trip operation: to charge a chamber of a double 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]
ABS - No PST	1	1,97E-08	0,00E+00	7,79E-08
ABS - With PST	1	1,97E-10	1,95E-08	7,79E-08
ABS - No PST	2	1,20E-07	0,00E+00	0,00E+00
ABS - With PST	2	1,20E-09	1,19E-07	0,00E+00

Systematic capability	3 (Route 1 _s 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-ABS-01.

END OF CERTIFICATE

