

CERTIFICATE

This certifies that the company

Actuatech S.p.A. Via San Lorenzo, 70 25069 Villa Carcina (BS) Italy

Is authorized to provide the product mentioned below

Description of product:

Pneumatic scotch-yoke spring return and double acting actuator

series GS, GD

In accordance with:

EN 61508:2010 Parts 1, 2, 4, 5, 6, 7

Registration No 20 20294 01 Test Report No PS-24173-23-M File reference 24173-01

TÜV NORD Italia S.r.l. (TÜV NORD Group) Via Turati, 70 - 20023 Cerro Maggiore (MI) Till NORD Italia 5:1:10

www.tuev-nord.it

Validity from 2023-07-04 until 2026-07-04

Cerro Maggiore, 2023-07-04 prodotto@tuev-nord.it



ANNEX

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Туре	A
HFT	0
Safety functions	Spring return actuators: 1. Delivery of a full stroke (90° ± tolerance) driven by the spring, with power fluid exhausted from the cylinder through the control system Double acting actuators: 1. Delivery of a full stroke (90° ± tolerance) driven by the piston of cylinder, powered by the specified medium working pressure
Mode of operation	Low Demand Mode

Random failure rates							
Configuration	Safety function λ _{DU} [1/h]		λ _{DD} [1/h]	λ _s [1/h]			
GS - No PST	1	4,36E-08	0,00E+00	0,00E+00			
GS - With PST	1	3,93E-09	3,97E-08	0,00E+00			
GD - No PST	1	8,07E-08	0,00E+00	0,00E+00			
GD - With PST	1	7,26E-09	7,34E-08	0,00E+00			

Systematic capability	3 (Route 1 _S applied)				
			-		
	Route 1 _H :	Applied	Route 2 _H :	Applied	
Architectural constraints	The product can be used in: • single channel configuration: • 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 SMA201701.

