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CERTIFICATE

This certifies, that the company

Omal S.p.A. Via Ponte Nuovo, 11 25050 Rodengo Saiano (BS) Italy

Is authorized to provide the product mentioned below

Description of product: Pneumatic scotch-yoke spring return and double acting heavy duty actuator series SRHG, DAHG

In accordance with:

EN 61508:2010 Parts 1, 2, 3, 4, 5, 6, 7

Registration No 20 20533 01 Test Report No PS-23789-23-M-07 File reference 23789-07

Sm

TÜV Nord Italia S.r.I (TÜV NORD Group) Via Turati, 70 – 20023 Cerro Maggiore (MI) – Italy



www.tuev-nord.it

Validity from 2023-12-03 until 2026-12-02

> Cerro Maggiore, 2023-11-29 prodotto@tuev-nord.it

TNI-QF(IND-SIL-01)-14-Rev01_18_08_2023-Certificate_Type A

Please also pay attention to the information stated overleaf

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To Certificate-Nr. 20 20533 01

Туре	A
HFT	0
Safety functions	 <u>Spring return actuators:</u> Delivery of a full stroke (90° ± tolerance) driven by the spring, with power fluid exhausted from the cylinder through the control system <u>Double acting actuators:</u> 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 _{ου} [1/h]	λ _{DD} [1/h]	λ _s [1/h]		
Series SRHG - No PST	1	5,64E-08	0,00E+00	0,00E+00		
Series SRHG - With PST	1	5,08E-09	5,14E-08	0,00E+00		
Series DAHG - No PST	1	1,04E-07	0,00E+00	0,00E+00		
Series DAHG - With PST	1	9,36E-09	9,47E-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 SMA201705. 						



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