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C E R T I F I C A T E

This certifies that the company

FESTO SE & CO. KG
Ruiter Strasse 82
73734 Esslingen
Germany

Is authorized to provide the product mentioned below

Description of product:	**Pneumatic scotch-yoke spring return and double acting actuator series DAPS**
In accordance with:	**EN 61508:2010 Parts 1, 2, 4, 5, 6, 7**

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Inspection & Certification Services
TÜV NORD Italia S.r.l.

Registration No 21 21708 01
Test Report No PS-24346-23-M
File reference 24346-01

Validity
from 2023-07-25
until 2026-07-04

TÜV NORD Italia S.r.l. (TÜV NORD Group)
Via Turati, 70 - 20023 Cerro Maggiore (MI)

www.tuev-nord.it

Cerro Maggiore, 2023-07-25
prodotto@tuev-nord.it

Please also pay attention to the information stated overleaf

ANNEX

To Certificate-Nr. 21 21708 01

Type	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]**
DAPS spring return - No PST	1	4,36E-08	0,00E+00	0,00E+00
DAPS spring return - With PST	1	3,93E-09	3,97E-08	0,00E+00
DAPS double acting - No PST	1	8,07E-08	0,00E+00	0,00E+00
DAPS double acting - With PST	1	7,26E-09	7,34E-08	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:
	• 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 SMA202101.

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