



**Certificate no. TAI-FS-C-24-0006**

WE HEREBY CERTIFY THAT

**Product description** PNEUMATIC SCOTCH-YOKE DOUBLE ACTING ACTUATOR

**Models** SERIES RSP, RCP, RKP, RTP

**Manufacturer** SERVOVALVE S.p.A.  
Via Giotto 29  
I-20145 Milano (MI)

IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE STANDARDS

**IEC 61508 Parts 1–7:2010**

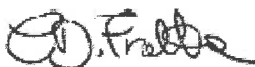
AS RESULT OF THE ASSESSMENT ACCORDING TO THE PROVISION  
SET OUT IN THE ABOVE-MENTIONED STANDARDS

**Summary Report no.** TAI-FS-R-24-0012

**Expiry date** 07.01.2027

**Issue date** 08.01.2024

TUV AUSTRIA ITALIA  
08.01.2024, Monte Roberto (AN)

  
Ing. Crescenzo Di Fratta

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C.F./P. IVA IT01055750333 - Cap. Soc. i.v. € 400.000,00 - REA AN n. 211030  
Società a socio unico, soggetta a controllo e coordinamento di:  
TÜV AUSTRIA HOLDING AG Deutschstrasse 10, A-1230, Vienna, Austria  
www.tuvaustriaitalia.com

## Annex to certificate no. TAI-FS-C-24-0006

<b>Type</b>	A
<b>HFT</b>	0
<b>Safety functions</b>	1. Delivery of a full stroke (90° ± tolerance) driven by the piston of cylinder, powered by the specified medium working pressure
<b>Mode of operation</b>	Low Demand Mode

Random failure rates				
Configuration	Safety function	$\lambda_{DU}$ [1/h]	$\lambda_{DD}$ [1/h]	$\lambda_S$ [1/h]
RSP, RCP, RKP, RTP - No PST	1	6,96E-08	0,00E+00	0,00E+00
RSP, RCP, RKP, RTP - With PST	1	6,26E-09	6,33E-08	0,00E+00

<b>Systematic capability</b>	3 (Route 1s applied)			
<b>Architectural constraints</b>	<b>Route 1<sub>H</sub>:</b>	Applied	<b>Route 2<sub>H</sub>:</b>	Applied
	The product can be used in: <ul style="list-style-type: none"> <li>• single channel configuration:                             <ul style="list-style-type: none"> <li>○ up to SIL 2 without external diagnostic tests</li> <li>○ up to SIL 3 considering external diagnostic tests</li> </ul> </li> <li>• double channel configuration: up to SIL 3</li> </ul>			

**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 SM-06

END OF CERTIFICATE

TUV AUSTRIA ITALIA  
08.01.2024, Monte Roberto (AN)

  
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