



Certificate no. TAI-FS-C-20-0037

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-20-0072

Expiry date 03.11.2023

Issue date 04.11.2020

04.11.2020, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

Annex to certificate no. TAI-FS-C-20-0037

Type	A
HFT	0
Safety functions	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]
RSP, RCP, RKP, RTP - No PST	1	6,65E-08	0,00E+00	0,00E+00
RSP, RCP, RKP, RTP - With PST	1	5,98E-09	6,05E-08	0,00E+00

Systematic capability	3 (Route 1s applied)			
Architectural constraints	Route 1H:	Applied	Route 2H:	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 SM-06.

END OF CERTIFICATE

