



C E R T I F I C A T E

Certificate no. 17-SIL-0010027-10-TIC

WE HEREBY CERTIFY THAT

Product description HYDRAULIC LINEAR SPRING RETURN ACTUATORS

Models SERIES HC, HA

Manufacturer SERVOVALVE S.p.A.
Via Quasimodo 25/27 – 20010 Santo Stefano Ticino 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. RC-0318-SIL-TIC-PC-0010027-17-14

Expiry date 25.03.2021

Note

This certificate is issued upon the request of the manufacturer as voluntary certification; it does not include the production surveillance.
This certificate does not allow the manufacturer to use the safety mark of TÜV INTERCERT.



Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body

Reggio Emilia, 26.03.2018



C E R T I F I C A T E

ANNEX to Certificate no. 17-SIL-0010027-10-TIC

Type	A
HFT	0
Safety functions	1. Stem extended upon the demand of the actuation system 2. Stem retracted upon the demand of the actuation system
Mode of operation	Low Demand Mode

Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
HC - No PST	1	3,23E-08	0,00E+00	0,00E+00
HC - With PST	1	2,91E-09	2,94E-08	0,00E+00
HA - No PST	2	3,38E-08	0,00E+00	0,00E+00
HA - With PST	2	3,04E-09	3,08E-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: <ul style="list-style-type: none">single channel configuration:<ul style="list-style-type: none">up to SIL 2 without external diagnostic testsup to SIL 3 considering external diagnostic testsdouble 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-08.

END OF CERTIFICATE

Reggio Emilia, 26.03.2018

Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body

Page 2 of 2