



Certificate no. TAI-FS-C-26-0012

WE HEREBY CERTIFY THAT

Product description Pneumatic rack and pinion spring return and double acting actuator

Models Series Hytork XL

Manufacturer Emerson Automation Solutions
Valve Automation, Inc.
19200 Northwest Freeway
Houston, Texas 77065
United States of America

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 THE PRODUCT MEETS ALSO THE REQUIREMENTS OF STANDARD EN 17955:2024

Assessment report no. TAI-FS-R-26-0016

Expiry date 27.04.2029

Issue date 28.04.2026

TUV AUSTRIA ITALIA
28.04.2026, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

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Annex to certificate no. TAI-FS-C-26-0012

Type	A
HFT	0
Safety functions	<u>Spring return actuators:</u> 1. Delivery of a full stroke ($90^\circ \pm$ tolerance) driven by the spring, with power fluid exhausted from the cylinder through the control system <u>Double acting actuators:</u> 1. Delivery of a full stroke ($90^\circ \pm$ tolerance) driven by the piston of cylinder, powered by the specified medium working pressure
Mode of operation	Low Demand Mode

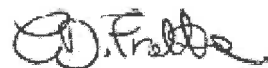
Random failure rates				
Model / Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
Series XL spring return – No PST	1	2,66E-08	0,00E+00	0,00E+00
Series XL spring return – With PST	1	2,40E-09	2,42E-08	0,00E+00
Series XL double acting – No PST	1	3,07E-08	0,00E+00	0,00E+00
Series XL double acting – With PST	1	2,76E-09	2,79E-08	0,00E+00

Systematic capability	3 (Route 1s 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 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 DOC.SILM.HXL.EN

END OF CERTIFICATE

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