

ANNEX

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To Certificate-Nr. 21 21859 01

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				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
RP spring return - No PST	1	8,33E-08	0,00E+00	0,00E+00
RP spring return - With PST	1	7,50E-09	7,58E-08	0,00E+00
RP double acting - No PST	1	2,17E-07	0,00E+00	0,00E+00
RP double acting - With PST	1	1,95E-08	1,97E-07	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 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 SM202101.

