



C E R T I F I C A T E

Certificate no. 17-SIL-0010008-27-TIC

WE HEREBY CERTIFY THAT

Product description

HYDRAULIC RACK AND PINION SPRING RETURN ACTUATORS

Models

SERIES RPHS

Manufacturer

BIFFI ITALIA S.r.l.

Strada Biffi 165 – 29017 Fiorenzuola d'Arda PC

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-0419-SIL-TIC-PC-0010008-17-15

Expiry date

25.04.2022

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.

Reggio Emilia, 26.04.2019




Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body



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ANNEX to Certificate no. 17-SIL-0010008-27-TIC

Type	A
HFT	0
Safety functions	1. Delivery of a full stroke (\pm tolerance) driven by the spring, with power fluid exhausted from the cylinder through the control 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]
RPHS - No PST	1	4,23E-08	0,00E+00	0,00E+00
RPHS - With PST	1	3,81E-09	3,85E-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 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 016.

END OF CERTIFICATE

Reggio Emilia, 26.04.2019


 Dipl. Ing. Feridoon Sergizzarea
 TÜV INTERCERT Certification Body