



Certificate no. TAI-FS-C-25-0005

WE HEREBY CERTIFY THAT

Product description

Pneumatic linear spring return and double acting actuator

Models

**Biffi™ series PLAS, PLA
Bettis™ series GVO LP-SR / GVO LP-FS, GVO LP-DA
Fisher™ series 785C**

Manufacturer

**Biffi Italia S.r.l.
Strada Biffi 165
I-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 THE PRODUCT MEETS ALSO THE REQUIREMENTS OF STANDARD EN 17955:2024

Assessment report no. TAI-FS-R-25-0005

Expiry date 18.03.2028

Issue date 19.03.2025

TUV AUSTRIA ITALIA
19.03.2025, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

TUV AUSTRIA ITALIA S.p.A.

Via del Commercio, 6/A 60030 Monte Roberto (AN)
+39 0731 22781 - info@tuvaustraiitalia.com - tuvaustraiitalia@pec.it
C.F./P. IVA IT01055750333 - Cap. Soc. i.v. € 400.000,00 - REA AN n. 211030
Società a socio unico, soggetta a controllo e coordinamento di:
TÜV AUSTRIA HOLDING AG Deutschstrasse 10, A-1230, Vienna, Austria
www.tuvaustraiitalia.com

Annex to certificate no. TAI-FS-C-25-0005

Type	A
HFT	0
Safety functions	<u>Spring return actuators:</u> 1. Delivery of a full stroke (\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 (\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]
Biffi™ series PLAS, Bettis™ series GVO LP-SR / GVO LP-FS, Fisher™ series 785C - No PST	1	1,11E-08	0,00E+00	0,00E+00
Biffi™ series PLAS, Bettis™ series GVO LP-SR / GVO LP-FS, Fisher™ series 785C - With PST	1	9,99E-10	1,01E-08	0,00E+00
Biffi™ series PLA, Bettis™ series GVO LP-DA, Fisher™ series 785C - No PST	1	1,12E-08	0,00E+00	0,00E+00
Biffi™ series PLA, Bettis™ series GVO LP-DA, Fisher™ series 785C - With PST	1	1,01E-09	1,02E-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 025, SM 024

END OF CERTIFICATE

TUV AUSTRIA ITALIA
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