



Certificate no. TAI-FS-C-24-0055

WE HEREBY CERTIFY THAT

Product description 2/2 HYDRAULIC PILOTED VALVE (DUMP VALVE)

Models SERIES 2P538KSSZY (standard), 2P537KSSZY (adjustable),
2P536KSSZY (adjustable with balanced nozzle),
2P535KSSZY (adjustable with balanced nozzle and
integrated check valve)

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

Summary Report no. TAI-FS-R-24-0109

Expiry date 23.06.2027

Issue date 24.06.2024

TUV AUSTRIA ITALIA
24.06.2024, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

TUV AUSTRIA ITALIA S.p.A.

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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-24-0055

| | |
|--------------------------|----------------------------------------------------------------------------------|
| Type | A |
| HFT | 0 |
| Safety functions | 1. De-energize-to-trip operation: to discharge a chamber of a pneumatic actuator |
| Mode of operation | Low Demand Mode |

| Random failure rates | | | | |
|-----------------------------------------------------------|-----------------|----------------------|----------------------|-------------------|
| Configuration | Safety function | λ_{DU} [1/h] | λ_{DD} [1/h] | λ_S [1/h] |
| 2P538KSSZY, 2P537KSSZY, 2P536KSSZY, 2P535KSSZY - No PST | 1 | 4,98E-09 | 0,00E+00 | 1,16E-07 |
| 2P538KSSZY, 2P537KSSZY, 2P536KSSZY, 2P535KSSZY - With PST | 1 | 4,98E-11 | 4,93E-09 | 1,16E-07 |

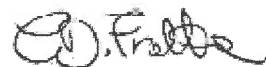
| | | | | |
|----------------------------------|---------------------------------------------------------------------|---------|-----------------------------|---------|
| Systematic capability | 3 (Route 1s applied) | | | |
| Architectural constraints | Route 1_H: | Applied | Route 2_H: | Applied |
| | The product can be used in single 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 010

END OF CERTIFICATE

TUV AUSTRIA ITALIA
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