Certificate

No.: 968/V 1184.01/26

Product tested	Plug Valves Non Lubricated Metal to Metal Lift Plug & Switch Plug Valves	**Certificate holder**	AMPO POYAM Valves Division Valvulas Poyam Barrio Katea Auzoa S/N 20213 Idiazabal (Guipuzcoa) Spain
Type designation	High Temperature Lift Plug Valves Switch Valves (Wedge Plug Type) Standard Temperature Lift Plug Valves		
Codes and standards	IEC 61508 parts 1-2:2010		EN 17955:2024 (non accred.)
Intended application	Safety Function: Open or Close on Demand The Plug Valves are suitable for use in a safety instrumented system up to SIL 2 (low demand mode). Under consideration of the minimum required hardware fault tolerance HFT = 1 the valves may be used in a redundant architecture up to SIL 3 (low demand mode).		
Specific requirements	The instructions of the associated Installation, Operation and Safety Manual must be considered.		

Summary of test results see back side of this certificate.

Valid until 2031-01-27

The issue of this certificate is based upon an evaluation in accordance with the Certification Program CERT FSP1 V3.0:2020 in its actual version, whose results are documented in Report No. 968/V 1184.01/25 dated 2025-11-24. This certificate is valid only for products, which are identical with the product tested. Issued by the certification body accredited by DAkkS according to DIN EN ISO/IEC 17065. The accreditation is only valid for the scope listed in the annex to the accreditation certificate D-ZE-11052-02-00.

Köln, 2026-01-27

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein, 51105 Köln

Certification Body Safety & Security for Automation & Grid

Dipl.-Ing. (FH) Wolf Rückwart

TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, 51105 Köln / Germany
Tel.: +49 221 806-1790, Fax: +49 221 806-1539, E-Mail: industrie-service@de.tuv.com

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Holder: AMPO POYAM Valves
Division Valvulas Poyam
Barrio Katea Auzoa S/N
20213 Idiazabal (Guipuzcoa)
Spain

Product tested: **Plug Valves**
(Non Lubricated Metal to Metal Lift Plug & Switch Plug Valves)

Results of Assessment

Route of Assessment	2_H / 1_S
Type of Sub-system	Type A
Mode of Operation	Low Demand Mode
Utilization Rate	Low Utilization Rate
Hardware Fault Tolerance	HFT = 0
Systematic Capability	**SC 3**

Close on demand

Dangerous Failure Rate	λ_D	4.00 E-08 / h	**40 FIT**
Average Probability of Failure on Demand 1oo1	$PFD_{avg}(T_1)$	1.75 E-04	
Average Probability of Failure on Demand 1oo2	$PFD_{avg}(T_1)$	1.76 E-05	

Open on demand

Dangerous Failure Rate	λ_D	3.40 E-08 / h	**34 FIT**
Average Probability of Failure on Demand 1oo1	$PFD_{avg}(T_1)$	1.49 E-04	
Average Probability of Failure on Demand 1oo2	$PFD_{avg}(T_1)$	1.49 E-05	

Assumptions for the calculations above: DC = 0 %, T_1 = 1 year, β_{1oo2} = 10 %

Origin of failure rates

The stated failure rates are the result of an FMEDA acc. EN 17955:2024 Annex C.
The stated failure rates do not release the end-user from collecting and evaluating application-specific reliability data.

Periodic Tests and Maintenance

The given values require periodic tests and maintenance as described in the Safety Manual.
The operator is responsible for the consideration of specific external conditions (e.g. ensuring of required quality of media, max. temperature, time of impact), and adequate test cycles.