Inspection Certificate



Certificate No	968/INS 913.00/25
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Client / Certificate Owner Crane Instrumentation & Sampling PFT Corp. dba HOKE, Inc.

405 Centura Ct.

Spartanburg, SC 29303

USA

Product Poppet Check Valve

Type designation Hoke CVH

1/4", 3/8", 1/2", 3/4", 1"

Standards applied for

inspection

IEC 61508 parts 1-2:2010

EN 17955:2024 (non accred.)

Inspection Results The function of the check valves is to shut-off the valve and block the

reverse flow of the fluid. Neither an external force nor an actuator is

required to perform this function.

The check valves can be used in safety-related systems in low demand

mode with a systematic capability of SC 3 as part of a final element /

actuator assembly.

The instructions of the associated Installation, Operating and Safety

Manual shall be considered.

Summary of test results see back side of this certificate

Inspection Period 2025-01-01 - 2025-04-01

Cologne, 2025-04-11

TÜV Rheinland Industrie Service GmbH Am Grauen Stein, 51105 Cologne - Germany TÜV Rheinland Industrie Service GmbH

Bereich Automation

Funktionale Sicherheit

Am Grauen Stein, 51105 Köln

Dipl.-Ing. (FH) Wolf Rückwart

Inspection Body of TÜV Rheinland Industrie Service GmbH, Automation - Functional Safety, www.tuvasi.com The issue of this inspection certificate is based upon an inspection in accordance with the Inspection Program INS FSP1 V3.0:2023 in its actual version, whose results are documented in Report No. 968/INS 913.00/25 dated 2025-04-01. Issued by the inspection body accredited by DAkkS according to DIN EN ISO/IEC 17020. The accreditation is only valid for the scope listed in the annex to the accreditation certificate D-IS-11052-04-03.





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968/INS 913.00/25 - page 2



Holder: Crane Instrumentation & Sampling PFT Corp. dba

HOKE, Inc. 405 Centura Ct.

Spartanburg, SC 29303 United States of America

Product tested: Poppet Check Valve

Type: Hoke CVH

Results of Assessment

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

Close on Demand and External Tightness

Dangerous Failure Rate	λ_{D}	1.01 E-07 / h	101 FIT		
Close on Demand and Blocking of Reverse Flow of the Media					
Dangaraya Failura Pata	λ	1 22 E 07 / b	422 EIT		

Dangerous Failure Rate	λ_{D}	1.33 E-07 / h	133 FIT
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Dangerous Failure Rate	λ_{D}	1.26 E-07 / h	126 FIT
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Origin of failure rates

The stated failure rates for low demand are the result of an FMEDA with tailored failure rates for the design and manufacturing process. Furthermore the results have been verified by field-feedback data. Failure rates include failures that occur at a random point in time and are due to degradation mechanisms such as ageing. 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.