

CERTIFICATE NO

ZERTIFIKAT NR.:

FS/71/220/21/0747

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SEITE(N)

LICENCE HOLDER

GENEHMIGUNGSINHABER

Automatic Valve Industrial LLC
950 Woodward Heights
Ferndale MI 48220
USA

MANUFACTURING PLANT

FERTIGUNGSTÄTTE

Automatic Valve Industrial LLC
950 Woodward Heights
Ferndale MI 48220
USA

PROJECT NO/-ID

PROJEKT-NR/-ID

S1MC

LICENSED TEST MARK

GENEHMIGTES PRÜFZEICHEN



TECHN. REPORT NO.

TECHNISCHER BERICHT NR.

S1MC0001

Tested according to

Geprüft nach

IEC 61508:2010 Ed.2

Certified product(s)

Zertifizierte(s) Produkt(e)

Spool Valve type series D, I, L

Model(s)

Modell(e)

Namur Interface Valves: D06; D20; ISO Spool Valves: I15; I20; I45; Compact Spool Valves: L20; L65; Top Mount Spool Valves: L21; L45

Technical Data and Parameter

Technische Daten und Parameter

The products fulfil the requirements of functional safety acc. to IEC 61508:2010. The products can be used with a hardware fault tolerance HFT = 0, e.g. in a 1oo1 architecture up to SIL 2 with SC 3, and HFT ≥ 1, e.g. in a 1oo2 architecture up to SIL 3 with SC 3.

Specific Requirements

Spezifische Anforderungen

This certificate confirms the achievement of the requirements of functional safety based on the following proofs:

- Proof of systematic safety integrity for defined phases of the life cycle
- Proof of the required safety-related parameters (failure rate, PFD and SFF by means of FMEDA)
- Proofs that processes and methods are established at the manufacturer guaranteeing that unexceptionable processes in terms of risk analysis, design, production, validation, change management and quality management comply with the safety-related standard (see S1MC0001).

**Certification Body
for Functional Safety
SGS-TÜV Saar GmbH**

Zertifizierungsstelle für Funktionale Sicherheit

Munich, 2021-09-20

Robert Sammer

The test mark regulation is an integral part of this certificate.
Die Prüf- und Zertifizierungsordnung ist integraler Bestandteil des Zertifikates.

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