

Certificate



SIL/PL
Capability

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No.: 968/FSP 3188.00/26

Product tested	Choke Valves	Certificate holder	Duxvalves B.V. Bornsestraat 321 7601 PB Almelo The Netherlands
Type designation	Duxvalves DCV-... Details see Revision List	Manufacturer	see certificate holder
Codes and standards	IEC 61508 parts 1-2:2010		EN 17955:2024 (non accred.)
Intended application	Safety Function: Open and Close on Demand The 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 for the complete final element the valves may be used up to SIL 3.		
Specific requirements	The instructions of the associated Installation, Operating and Safety Manual shall be considered.		

Summary of test results see back side of this certificate.

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/FSP 3188.00/26 dated 2026-08-31. 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.

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

Köln, 2026-09-14

Certification Body Safety & Security for Automation & Grid

Dipl.-Ing. (FH) Wolf Rückwart

Holder: Duxvalves B.V.
 Bornsestraat 321
 7601 PB Almelo
 The Netherlands

Product tested: Choke Valves
Type: Duxvalves DCV-...

Details see Revision List

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 and High Utilization Rate
Hardware Fault Tolerance	HFT = 0
Systematic Capability	SC 3

Close on Demand

Dangerous Failure Rate	λ_D	3.70 E-08 / h	37 FIT
Average Probability of Failure on Demand 1oo1	$PFD_{avg}(T_1)$	1.65 E-04	
Average Probability of Failure on Demand 1oo2	$PFD_{avg}(T_1)$	1.65 E-05	

Open on Demand

Dangerous Failure Rate	λ_D	3.50 E-08 / h	35 FIT
Average Probability of Failure on Demand 1oo1	$PFD_{avg}(T_1)$	1.56 E-04	
Average Probability of Failure on Demand 1oo2	$PFD_{avg}(T_1)$	1.56 E-05	

Assumptions for the calculations above: DC = 0 %, $T_1 = 1$ year, MRT = 72 h, $\beta_{1oo2} = 10$ %

Origin of failure rates

The stated failure rates are the result of an FMEDA acc. EN 17955, 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.