



Certificate

Project #: 22-038-DUXVLV2021023

*SIL 3 Capable
Type A, Route 2H*

DUXVALVES B.V., SIL Classification Choke Valves DCV Series C, E, F and G [bare stem]

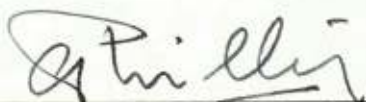
Application: Severe unclean [upstream] duty class NU-Naval Unsheltered; this includes the lighter clean process service duty class NU. Naval Unsheltered (non-protected surface ship borne equipment exposed to vibrations and environmental naval weather conditions).

Function: Open-to-Close or Close-to-Open duty, including modulating movement. Low Demand Mode. Architectural constraint, Route 1H/2H: HFT= 0 for SIL-2; HFT= 1 for SIL-3; and HFT= 2 for SIL-4.

Verified: Meets the applicable requirements of IEC 61508:2010 Parts 1-7 per the analysis report.

Systematic: Assessed the manufacturer's product development, design, and quality control processes. For SIL-2 and above safety-related services, manufacturer's certification is required after dis-assembly, assembly, repair and/or modification of the choke valve.

Random: Quantitative analysis supported by failure modes effects and criticality analysis.



Ir. Ing. C. P. Willig, Dependable Industrial Automation Consultancy USA LLC



Eloise Roche, SIS-TECH



Valid Until: March 15, 2026