



# COMPLIANCE

with IEC EN 61508

Certificate No.: TUV IT 26 SIL 0734

**CERTIFICATE OWNER:** Aquestia Italy S.r.l.  
Via Dell'Acqua, 7  
20027 – Rescaldina (MI)  
Italy

**WE HEREWITH CONFIRM THAT  
DELUGE VALVES MODEL 68  
MEET THE SIL REQUIREMENTS DETAILED IN THE ANNEXED TABLES  
FOR THE SAFETY FUNCTION:**

*“correct switching on demand (closed to open), in low demand mode of operation”*

**Examination result:** The above reported Deluge Valves Model 68 were found to meet the standard defined requirements of the safety levels detailed in the following table according to IEC EN 61508, under fulfillment of the conditions listed in the Report R TUV IT 26 SIL 0655 in its currently valid version, on which this Certificate is based

**Examination parameters:** Construction/Functional characteristics and reliability and availability parameters of the above Deluge Valves Model 68

**Official Report No.:** R TUV IT 26 SIL 0655

**Expiry Date** May, 17<sup>th</sup> 2029

**IT IS TO BE INTENDED THAT THE ABOVE OFFICIAL REPORT AND ITS ANNEXES ARE AN INTEGRAL PART OF THIS DOCUMENT**

**Reference Standard** IEC EN 61508:2010 Part 2, 4, 6, 7

Milan, May, 18<sup>th</sup> 2026

TÜV ITALIA Srl



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Alberto Carelli  
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Infrastructure Division  
Managing Director

## SUMMARY TABLE



<i>E/EE/EP safety-related system (final element)</i>	Deluge Valves Model 68 produced by Aquestia Italy S.r.l.
<i>System type</i>	Type A
<i>Systematic Capability</i>	SC2
<i>Safety Function Definition</i>	“correct switching on demand (closed to open), in low demand mode of operation”
<i>Max SIL<sup>(1)</sup></i>	SIL3
$\lambda_{TOT}$	2,029E-06
$\lambda_{NE}$	1,476E-06
$\lambda_S$	0,000E+00
$\lambda_{DD}$	0,000E+00
$\lambda_{DU,FPT}$	5,533E-07
<i><math>\beta</math> and <math>\beta_D</math> factor</i>	10%
<i>MRT</i>	8 h
<i>Hardware Safety Integrity</i>	Route 2 <sub>H</sub>
<i>Systematic Safety Integrity</i>	Route 2 <sub>s</sub>
<b>Remarks</b>	
<i>(1) The Safety Integrity Level (SIL) of the entire Safety Instrumented Function (SIF) must be verified via a calculation of <math>PFD_{AVG}</math> considering the redundant architectures, proof test interval, proof test effectiveness, any automatic diagnostics, average repair time and the specific failure rates of all products included in the SIF. Each subsystem must be checked to assure compliance with the minimum hardware fault tolerance (HFT) requirements.</i>	

*SIL classification according to Standard IEC EN 61508:2010 (Chapters: 2, 4, 6, 7) for Deluge Valves Model 68 produced by Aquestia Italy S.r.l.*

NOTE: The present table is integral part of the Document: TUV IT 26 SIL 0734  
Date: May, 18<sup>th</sup> 2026