



# COMPLIANCE

with IEC EN 61508 and IEC EN 61511

Certificate No.: TUV IT 26 SIL 0735

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

**WE HEREWITH CONFIRM THAT**  
**AQUESTIA DELUGE VALVE MODEL 68 + THOMPSON SOLENOID VALVE ICO3S**  
**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”*

<b>Examination result:</b>	The above reported assembly meets the standard defined requirements of the safety levels detailed in the following table according to IEC EN 61508 and IEC 61511
<b>Examination parameters:</b>	Construction/Functional characteristics and reliability and availability parameters of the above assembly
<b>Components certificates</b>	TUV IT 26 SIL 0734 – Aquestia Deluge Valve Model 68 FSP 04001/10 – Thompson Solenoid Valve ICO3S
<b>Expiry Date</b>	May, 18 <sup>th</sup> 2029
<b>Reference Standards</b>	IEC EN 61508:2010 Part 2, 4, 6, 7 IEC EN 61511:2016 Part 1, 2, 3

Milan, May, 19<sup>th</sup> 2026

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Alberto Carelli  
Industry Service – Real Estate &  
Infrastructure Division  
Managing Director

## SUMMARY TABLE



Aquestia Deluge Valve Model 68						
Full Stroke Test Interval	6 months	12 months	24 months	36 months	48 months	60 months
<b>PFD<sup>(1)</sup></b>	1,22E-03	2,43E-03	4,85E-03	7,27E-03	9,70E-03	1,21E-02
<b>Remarks</b>						
1. PFD has been calculated on the basis of a Full Functional Proof Test with time interval reported in the table (Full Stroke Test Interval) with configuration 1001 (HFT=0).						

Thompson Solenoid Valve ICO3S						
Full Stroke Test Interval	6 months	12 months	24 months	36 months	48 months	60 months
<b>PFD<sup>(1)</sup></b>	1,11E-05	2,21E-05	4,42E-05	6,63E-05	8,83E-05	1,10E-04
<b>Remarks</b>						
1. PFD has been calculated on the basis of a Full Functional Proof Test with time interval reported in the table (Full Stroke Test Interval) with configuration 1001 (HFT=0).						

Aquestia Deluge Valve Model 68 + Thompson Solenoid Valve ICO3S						
Full Stroke Test Interval	6 months	12 months	24 months	36 months	48 months	60 months
<b>PFD<sup>(1)</sup></b>	1,23E-03	2,45E-03	4,90E-03	7,34E-03	9,79E-03	1,22E-02
<b>SIL<sup>(2)</sup></b>	SIL2	SIL2	SIL2	SIL2	SIL2	SIL1
<b>Remarks</b>						
1. PFD has been calculated on the basis of a Full Functional Proof Test with time interval reported in the table (Full Stroke Test Interval) with configuration 1001 (HFT=0).						
2. For the final SIL classification for the considered safety function both the functional/architectural and probabilistic requirements have been evaluated.						

SIL classification according to Standards IEC EN 61508:2010 and IEC EN 61511:2016 for Aquestia Deluge Valve Model 68 + Thompson Solenoid Valve ICO3S

NOTE: The present table is integral part of the Document: TUV IT 26 SIL 0735  
Date: May, 19<sup>th</sup> 2026