



# COMPLIANCE

with IEC EN 61508 and IEC EN 61511

Certificate No.: TUV IT 26 SIL 0699

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

**WE HEREWITH CONFIRM THAT**  
**AQUESTIA DELUGE VALVE MODEL S-300 + 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”*

**Examination result:** 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

**Examination parameters:** Construction/Functional characteristics and reliability and availability parameters of the above assembly

**Components certificates** TUV IT 26 SIL 0698 – Aquestia Deluge Valve Model S-300  
FSP 04001/10 – Thompson Solenoid Valve ICO3S

**Expiry Date** February, 05<sup>th</sup> 2029

**Reference Standards** IEC EN 61508:2010 Part 2, 4, 6, 7  
IEC EN 61511:2016 Part 1, 2, 3

Milan, February, 06<sup>th</sup> 2026

TÜV ITALIA Srl



TÜV ITALIA Srl  
Industrie Service Division  
Managing Director

Alberto Carelli

## SUMMARY TABLE



Aquestia Deluge Valve Model S-300						
Full Stroke Test Interval	6 months	12 months	24 months	36 months	48 months	60 months
<b>PFD<sup>(1)</sup></b>	3,64E-04	7,27E-04	1,45E-03	2,18E-03	2,90E-03	3,63E-03
<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 1oo1 (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 1oo1 (HFT=0).						

Aquestia Deluge Valve Model S-300 + 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>	3,75E-04	7,49E-04	1,50E-03	2,24E-03	2,99E-03	3,74E-03
<b>SIL<sup>(2)</sup></b>	SIL2	SIL2	SIL2	SIL2	SIL2	SIL2
<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 1oo1 (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 S-300 + Thompson Solenoid Valve ICO3S

NOTE: The present table is integral part of the Document: TUV IT 26 SIL 0699  
Date: February, 06<sup>th</sup> 2026