



Italia

# COMPLIANCE

## with IEC EN 61508 and IEC EN 61511

**Certificate No.:** C- IS 246782 Rev. 01

**CERTIFICATE OWNER:** DELLA FOGLIA S.r.l.  
 Viale Kennedy 149  
 21050 MARNATE (VA)

**WE HEREWITH CONFIRM THAT**  
**THE ANALYSIS DEVELOPED BY DELLA FOGLIA AND REPORTED IN THE**  
**REPORT :**

*“PL56 - SIL CALCULATION REPORT DELLA FOGLIA TRUNNION*  
*MOUNTED BALL VALVES – Rev.1 dated 27/08/2014”*

**MEETS THE SIL REQUIREMENTS DETAILED IN THE ANNEXED TABLE**  
**FOR THE SAFETY FUNCTIONS :**

*“correct switching on demand (open to closed and closed to open) and*  
*tight for closing phase, in low demand mode of operation”*

**Examination result:** The above described report was found to meet the standard defined requirements of the safety levels detailed in the following table (T – IS – 232375) according to IEC EN 61508 and IEC EN 61511, under fulfillment of the conditions listed in the Report R-IS-246782 Rev.1 dated September, 24<sup>th</sup> 2014 in its currently valid version, on which this Certificate is based

**Examination parameters:** Compliance of the operational approach adopted and followed in the aforementioned report by DELLA FOGLIA: *“PL56 - SIL CALCULATION REPORT DELLA FOGLIA TRUNNION MOUNTED BALL VALVES – Rev.1 dated 27/08/2014”*.

**Official Report No.:** R-IS-246782 Rev. 1

**Expiry Date** September, 23<sup>rd</sup> 2017

**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 1, 2, 4, 6, 7 - IEC EN 61511 Part 1, 2, 3

**First emission:** Sesto San Giovanni, September, 24<sup>th</sup> 2014

**Second emission:** Sesto San Giovanni, December, 19<sup>th</sup> 2014

**TÜV ITALIA Srl**



**TÜV ITALIA Srl**  
 Industry Service Division  
 Director

\_\_\_\_\_  
 Gennaro Oliva



Italia

## SUMMARY TABLE T – IS – 246782

<i>E/EE/EP safety-related system (final element)</i>	Trunnion Mounted Ball Valves (side entry or top entry - bolted or welded split body) with size from ½” to 64” produced by DELLA FOGLIA S.r.l		
<i>System type</i>	Type A		
<i>Environment / Application<sup>(1)</sup></i>	Standard Temperature Service Class (STD)	High Temperature Service Class (HI)	Low Temperature or Cryogenic Service Class (LT)
<i>Safety Function Definition</i>	“correct switching on demand (open to closed and closed to open) and tight for closing phase, in low demand mode of operation”		
<i>Max SIL</i>	SIL 3	SIL 3	SIL 3
<i>Additional requirements for the max SIL classification</i>	<i>Execution of Partial Stroke Test with time interval not higher than 12 months and Full Proof Test with time interval not higher than 36 months</i>	<i>Execution of Partial Stroke Test with time interval not higher than 12 months and Full Proof Test with time interval not higher than 36 months</i>	<i>Execution of Partial Stroke Test with time interval not higher than 12 months and Full Proof Test with time interval not higher than 36 months</i>
<i>PF<sup>(2)</sup></i>	<b>3,5069E-05</b>	<b>1,8767E-04</b>	<b>1,3165E-04</b>
<p><b>Remarks</b></p> <p>(1) Category identified according to specific environment and application, in particular for temperature range. Refer to product safety manual for detailed information on the categories</p> <p>(2) PFD of reference calculated on the basis of a Full Proof Test with time interval equal to 24 months and Partial Stroke Test with time interval equal to 6 months. This time intervals are considered by TÜV as reasonably consistent with the implementation of the equipment for safety related-applications, with reference to the overall range of results shown in the report, where other possible combination of time intervals adequate for a classification up to SIL 3.</p>			

SIL classification according to Standards IEC EN 61508:2010 (Chapters: 1,2, 4, 6, 7) and IEC EN 61511 (Chapters: 1, 2, 3) for BALL VALVES produced by DELLA FOGLIA S.r.l.



T – IS – 246782

NOTE : The present table is integral part of the Document: C – IS – 246782  
Date : September, 24<sup>th</sup> 2014