



COMPLIANCE

with IEC EN 61508 and IEC EN 61511

Certificate No.: C- IS 254682

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 :

*“PL59 - SIL CALCULATION REPORT DELLA FOGLIA FLOATING BALL VALVES –
 Rev.0 dated 16/12/2014”*

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 – 254682) according to IEC EN 61508 and IEC EN 61511, under fulfillment of the conditions listed in the Report R-IS-254682 Rev.1 dated January, 29th 2015 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: *“PL59 - SIL CALCULATION REPORT DELLA FOGLIA FLOATING BALL VALVES – Rev.0 dated 16/12/2014”*.

Official Report No.: R-IS-254682 Rev. 1

Expiry Date January, 28th 2016

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

Sesto San Giovanni, January, 29th 2015



TÜV ITALIA Srl
 Industry Service Division
 Director

 Gennaro Oliva



Italia

SUMMARY TABLE T – IS – 254682

<i>E/EE/EP safety-related system (final element)</i>	Floating Ball Valves (side entry or top entry, bolted or threaded split body) with size from ¼” to 10” produced by DELLA FOGLIA S.r.l		
<i>System type</i>	Type A		
<i>Environment / Application⁽¹⁾</i>	Standard Temperature Service Class (STD)	High Temperature Service Class (HT)	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>PFD⁽²⁾</i>	7,4475E-05	8,3114E-05	1,3745E-04
<p>Remarks</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 – 254682

NOTE : The present table is integral part of the Document: C – IS – 254682
Date : January, 29th 2015