

## Type Approval Certificate Amendment

This is to certify that Certificate No. 04/ 00045(E2) for the undernoted products is amended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	SFZ S.A.S
<b>PLACE OF PRODUCTION</b>	8, rue des freres Lumiere 69680 Chassieu France
<b>DESCRIPTION</b>	Metallic expansion bellows Single or multiple layers
<b>TYPE</b>	OMEGA ZH (WZH)
<b>RATINGS</b>	Diameter (inches): 2 to 32 Design temperature (°C): -196 to +125 Design pressure (bar): 10
<b>APPLICATION</b>	LNG systems on ships and LNG terminals
<b>SPECIFIED STANDARDS</b>	Lloyd's Register's Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk; IMO IGC Code
<b>OTHER CONDITIONS</b>	<ol style="list-style-type: none"> <li>1. Bellows pieces are to be selected and installed in accordance with the manufacturer's instructions and recommendations.</li> <li>2. The materials and suitability of the end pieces does not required a Design review, it can be verified by the attending Lloyd's Register Surveyor prior to installation.</li> </ol>
<b>Certificate No.</b>	04/ 00045(E3)
<b>Issue Date</b>	09 August 2016
<b>Expiry Date</b>	26 May 2019
<b>Sheet</b>	1 of 2


  
 Mohamed Rila  
 Southampton Office  
 Lloyd's Register EMEA  
LR031:1.2015.12

M.H.M.Rila  
 Southampton Technical Support Office  
 Marine & Offshore Lloyd's Register

Lloyd's Register EMEA  
 71 Fenchurch Street, London EC3M 4BS



Lloyd's  
Register

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. 04/00045(E3) and its supplementary Type Approval Terms and Conditions form part of this Certificate*

All other details remain as the previous Certificate No. 04/ 00045(E2) to which this extension should be attached.

<b>Certificate No.</b>	04/ 00045(E3)
<b>Issue Date</b>	09 August 2016
<b>Expiry Date</b>	26 May 2019
<b>Sheet</b>	2 of 2



M.H.M.Rila  
Southampton Technical Support Office  
Marine & Offshore Lloyd's Register

**Lloyd's Register EMEA**  
**71 Fenchurch Street, London EC3M 4BS**

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

This is a copy of an electronic document. In the event of any conflict or ambiguity between the copy and the electronic document, which is retained and published by Lloyd's Register, the original electronic and certified version shall always prevail.