



Lloyd's  
Register

## Type Approval Certificate

*This is to certify that the undernoted product has been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.*

This certificate is issued to:

<b>PRODUCER</b>	Dantec Limited Tarran Way Moreton Wirral Merseyside CH46 4TL
<b>PLACE OF PRODUCTION</b>	As above
<b>DESCRIPTION</b>	Composite Cryogenic Transfer Hose
<b>TYPE</b>	Danchem PA SS100 Hose
<b>STANDARD</b>	LR Rules for the Classification of Ships 2014. LR Rules for Ships for Liquefied Gases 2014 LR Rules for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk LR Rules for the Construction and Classification of Ships for the Carriage of Liquid Chemicals in Bulk I.M.O. IGC code I.M.O. IBC code
<b>RATING</b>	Working pressure 20 bar. Temperature range -50 to +45° C. 25mm to 250mm bore.

See manufacturer's documentation and Design Appraisal Document. for use and limitations.

<b>Certificate No.</b>	14/ 00102
<b>Issue Date</b>	10 December 2014
<b>Expiry Date</b>	9 December 2019
<b>Sheet</b>	1 of 2

P.A. Stanney  
Marine Technology & Engineering Services, Southampton  
Lloyd's Register EMEA

*Lloyd's Register EMEA*

*Southampton Boldrewood Innovation Campus, Burgess Road, Southampton, SO16 7QF*

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, 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'. Lloyd's Register 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 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.

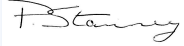


Lloyd's  
Register

*"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 Design Appraisal Document No. 14/00102 and its supplementary Type Approval Terms and Conditions form part of this Certificate*

**Certificate No.** 14/ 00102  
**Issue Date** 10 December 2014  
**Expiry Date** 9 December 2019  
**Sheet** 2 of 2

  
P.A. Stanney  
Marine Technology & Engineering Services, Southampton  
Lloyd's Register EMEA

*Lloyd's Register EMEA  
Southampton Boldrewood Innovation Campus, Burgess Road, Southampton, SO16 7QF*

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, 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'. Lloyd's Register 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 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.