



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE

Certificate No. TA14422M

This is to certify that the undernoted products have been approved in accordance with the relevant requirements of “Rules for the Survey and Construction of Steel Ships” and “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use”.

This certificate is issued to

Manufacturer:	President Engineering Group LTD
Product description:	Valves for low temperature services for Liquefied Gas Carriers
Type designation(s):	Float Level Isolation Valve
Approval No.:	09LA002B
Valid until:	16 August 2019

This certificate is subject to the conditions specified in the attached sheet.

Issued at Tokyo on 17 August 2014.



H. Suga
General Manager

Natural Resources and Energy Department

Attached sheet to the Certificate No. TA14422M

• **Particulars and conditions :**

Size: DN300, DN200
Description: Float Level Isolation Valve
Design Pressure: Max. 10 Barg
Design Temperature: min. -165°C
Fluid: Methane

• **Type approval tests carried out :**

In accordance with FLIV Cryo Test Specification for NK Type Approval Issue A 12-05-2009, complying with the requirements of 5.3.1 of Ch.5, Annex 1, Part N of NK Guidance

• **Documents :**

DWG Nos.:

- CHFG0UFAFLIV02 approved on 17 August 2014
- CHFG0UFAFLIV02 SHT1 approved on 17 August 2014
- L0620A001-2 approved on 17 August 2014
- L0620A002-2 approved on 17 August 2014

Test Report No.SA09LN07170 dated 16 July 2009

• **Production Test to be carried out:**

In accordance with the requirements of 5.3.2 of Ch.5, Annex 1, Part N of NK Guidance in the presence of the Society's Surveyor, after approval of drawings intended for each vessel:

1. Material test
2. Hydraulic test
3. Airtightness test
4. Leakage verification test for valve seat

• **Notice :**

1. Compatibility with intended cargoes is to be otherwise confirmed by the Society.
2. Any significant changes in design or construction of the above items may render this certificate invalid.

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