

NIPPON KAIJI KYOKAI



TYPE APPROVAL CERTIFICATE

Certificate No. TA21369M

This is to certify that the undernoted product(s) has been approved in accordance with the relevant requirements of "Rules for the Survey and Construction of Steel Ships", "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use" as specified below, and that the product(s) is found to comply with "International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code)" as amended by Res.MSC.370(93) and "International Code of Safety for Ships using Gases or other Low-Flashpoint Fuels (IGF Code)" as adopted by Res.MSC.391(95).

This certificate is issued to

Manufacturer:

SAMSON AKTIENGESELLSCHAFT

Product description:

Control Valves for Low Temperature Service of Liquefied Gas

Carriers

Type designation(s):

As per attached sheet

Applied requirement:

· Chapter 5 Part N Annex 1, Guidance for the Survey and

Construction of Steel Ships

· Chapter 5 Part GF Annex 1, Guidance for the Survey and

Construction of Steel Ships

· Part 6, Chapter 2, Guidance for the Approval and Type

Approval of Materials and Equipment for Marine Use

Approval No.:

10LA003B

This certificate is valid until 8 July 2025.

Issued at Tokyo on 20 July 2021.

See the conditions on the attachment.

(T. Shimada)

General Manager of

Machinery Department

Attached sheet to the Certificate No. TA21369M

Condition for approval

1. Particulars

Type	Drawing No.	Maximum Size	Cv	Maximum Design Pressure [MPa]	Minimum Design Temperature [℃]	Fluid
3241	1040-0122-SWD/12 1040-0470-SWD/0,a 1040-0121-SWD/10	DN150	300	5.0	-196	Methane Nitrogen Ethylene

- 2. The valves are to be used only for control purpose and can be used for steam, heat transfer oil and non-flammable liquids within the design pressure and temperature stated in Table D12.1, Part D of NK Rules.
- 3. Compatibility with intended cargoes is to be otherwise confirmed by the Society.
- 4. Details of construction is to be in accordance with the Manufacture's drawing approved on 28 September 2015 and 20 July 2021 with the following comments.

Comments;

3.2 Certificate is to be certified by NK Surveyor for the following parts.

Part No.1

Body

CF8M & A182F316

Part No.2

Cover

CF8M & A182F316

Part No.21, 22

Extension/bellow piece

A182F316 & CF8M

5. Production inspection is required for each product in the presence of the Society's surveyor.

- The End -