



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE

Certificate No. TA23383M

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	HEROSE GMBH ARMATUREN UND METALLE
Product description	Valves for Low Temperature Service
Type designation(s)	As per attached sheet
Applied requirements	<ul style="list-style-type: none">• 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. **23LA009B**

This certificate is valid until **31 August 2028**

Issued at Tokyo on **1 September 2023**

The details are described in the attached sheet(s).


(S. Oishi)
General Manager of
Machinery Department

Condition for approval

1. Particulars:

Valve type	Name of product	Drawing No.	Nominal Size (DN)	Cv	Design pressure (MPa)	Minimum design temperature (°C)
Globe	FullX	11C01-A001	10	2.8	6.3	-196
			15	3.8		
			20	5.2		
			25	12		
			32	24		
			40	29		
			50	46.5		

2. Compatibility with intended fluid is to be otherwise confirmed by the Society.

3. Materials of Body, Tube, Flange, Fitting and Head piece are to be in accordance with the relevant requirements of Part K of NK Rules or to be materials which is obtained NK Approval of Manufacturing Process and tested in the presence of NK surveyor.

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

- The End -