Certificate No: LR2461415TA
Issue Date: 27/04/2024
Expiry Date: 26/04/2029

Type Approval Certificate

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

Manufacturer	**Fukui Seisakusho Co., Ltd.**
Address	1-6 SHODAITAJIKA, HIRAKATA, OSAKA, 573-1132, Japan
Place of Production	Fukui Seisakusho Co., Ltd. 1-6 SHODAITAJIKA, HIRAKATA, OSAKA, 573-1132, Japan
Type	Safety Valves
Description	Safety Relief Valve
Trade Name	SL Series
Application	Marine and industrial steam raising plant and unfired pressure vessels
Specified Standard	Lloyd's Register (LR) Rules and Regulations for the Classification of Ships, July 2023 ASME BPVC, Section I ASME BPVC, Section VIII, Division 1 JIS B8210
Ratings	Size, orifice letter (mm): D (10.0) ~ T (153.0) Size, seat diameter (mm): 19.1 ~ 176.0 Pressure (MPa): 0.44 ~ 20.6 Temperatures (°C): 40 ~ 570

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Engineering Piping/Decarbon - Specialist to
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Discharge Coefficient, C-Value: 45
Pressure and temperature limits: see the manufacturer's specifications
Size restrictions: see item 3) of Other Conditions below.

Other Conditions

Where the safety valves are intended to be installed on boilers and pressure vessels in ships classed with Lloyd's Register, the following conditions will be applicable: -

1) The valves are to be constructed, tested, installed, and tested onboard to the satisfaction of Lloyd's Register's Surveyors in accordance with Part 5, Chapter 10 and 12 of the Rules and Regulations for the Classification of Ships as applicable.

2) The number, capacity and suitability of the valves for each installation are to be confirmed by Lloyd's Register's Surveyors before fitting onto steam raising plants.

3)Boilers and steam generators are to be fitted with not less than two safety valves, each having a minimum internal diameter of 25 mm, but those having a total heating surface of less than 50 m^2 may have one valve not less than 50 mm diameter. Small oil fired package boilers of the once through coil type used for auxiliary or domestic purposes, where the feed pump capacity limits the output, may have one safety valve not less than 19 mm internal diameter, or two safety valves with internal diameters not less than 16 mm, provided the capacity is in accordance with Part 5, Chapter 10, Section 15.2.13 of the Rules and Regulations for the Classification of Ships.

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 Group Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 94/10009(E5)

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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