Certificate No: LR2001825TA
Issue Date: 18/06/2019
Expiry Date: 17/06/2024

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	**Jokwang I.L.I Co., Ltd**
Address	37, Sanmakgongdanbuk 10-gil, Yangsan-si, Gyeongsangnam-do, 50567, Korea, Republic of
Place of Production	Jokwang I.L.I Co., Ltd 37, Sanmakgongdanbuk 10-gil, Yangsan-si, Gyeongsangnam-do, 50567, Korea, Republic of
Type	Safety Valves
Description	Safety and safety relief valves
Trade Name	JSV-FF21
Application	Marine steam raising plant and unfired pressure vessels
Specified Standard	Lloyd's Register (LR) Rules and Regulations for the Classification of Ships (July 2019) ASME Code, NC-7730 of Section III, Division 1
Ratings	Nominal size: 25×50 (*), 40×65, 50×80,65×100,80×100, 80×125, 100×150 Nominal pressure rating: JIS 10K, JIS 20K Bonnet type: Closed (JIS 10K & 20K), Open (JIS 20K) Discharge coefficient,C-value: 43.8

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Note (*) : See size restrictions stated in item 3) of OTHER CONDITIONS below.

Other Conditions

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

1) The valves are to be constructed, tested and installed to the satisfaction of Lloyd's Register's Surveyors.

2) The number,capacity and suitability of the valves for each installation is 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.

4) The valves, spindles, springs and compression screws are to be so encased and locked or sealed that the safety valves and pilot valves, after setting to the working pressure, cannot be tampered with or overloaded in service.

5) Type Approval does not eliminate the need for normal inspection survey procedures required by the Rules and Regulation.

6) If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

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

The Design Appraisal Document No. LR2001825TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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