Certificate No: LR21168735TA
Issue Date: 08/06/2021
Expiry Date: 07/06/2026

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	**SEWON IND CO LTD**
Address	#59, Hwangsagongdan-Ro, Beobsoo-Myeon, Haman-Gun, 52055, Republic of Korea
Type	Slip type expansion joints with resilient seal gland
Description	Sleeve type expansion joint
Application	Marine piping systems: Steam and Condensate system • For joints with asbestos free • For services and locations listed in Part 5, Chapter 12, Table12.2.7 where approved fire resistant types are not required.
Specified Standard	LR Rules and Regulations for the Classification of Ships (July 2020), Part 5, Chapter 12
Ratings	Max. working pressure: 5 Kg/cm^2 Nominal Pipe Diameter: 40A~300A Max. working pressure: 10 Kg/cm^2 NominalPipe Diameter (N.D): 40A~350A
Other Conditions	Where the joints are intended to be installed on a ship classed with LR, the following conditions of acceptance will be applicable:- • The positions of joints are to be indicated on individual diagrammatic

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plans of piping systems which are submitted for approval or for consideration.

- The joints are to be installed and tested in accordance with Part 5, Chapter 13, Section 2 of the Rules and Regulation for the Classification of ships in so far as applicable.
- The joints are to be made, installed and tested to appropriate pipe class requirements in accordance with Part 5, Chapter 12 of the Rules and Regulations for the Classification of Ships in so far as applicable.
- Where applicable, bonding for the control of static electricity is to be provided to comply with part 6, Chapter 2 of the Rules and Regulations for the Classification of Ships.
- In all case, the materials are to be suitable for their intended service conditions.

The dimensions and materials of flanges, gaskets and bolting, and the pressure-temperature rating of the bolted flanges in pressure pipelines, are to be in accordance with national or other established standards.

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 LR21168735TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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