



CERTIFICATE NUMBER 22-2327733-PDA
EFFECTIVE DATE 23 -November-2022
EXPIRATION DATE 22-November-2027
ABS TECHNICAL OFFICE Singapore Engineering Services

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

SHANGHAI SONGJIANG SHOCK ABSORBER GROUP CO., LTD

located at

**ROOM 1083, BUILDING 20, NO.1 GUANGMING EAST STREET,
QINGCUN TOWN, FENGXIAN DISTRICT, SHANGHAI ,China, 201414**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Expansion Joint, Rubber

Model CKST, CKXT

This Product Design Assessment (PDA) Certificate remains valid until 22-November-2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping

Yong Hui Liang, Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement

SHANGHAI SONGJIANG SHOCK ABSORBER GROUP CO., LTD

ROOM 1083, BUILDING 20, NO.1 GUANGMING EAST STREET, QINGCUN TOWN, FENGXIAN DISTRICT
SHANGHAI

China 201414

Telephone: 021-6697 7771

Fax:

Email: sjjz2000@126.com

Web: www.shsongjiang.net

Tier: 2 - PDA Issued

Product: Expansion Joint, Rubber

Model: CKST, CKXT

Endorsements:

Intended Service:

Oil system, sea water system, fresh water system, bilge/ballast water system, drinking water system, sanitary water system, compressed air system

Description:

Oil resistant rubber reinforced with polyester curtain and stainless steel wires.

Rating:

Size: DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250

Design Pressure: PN10/ PN16

Design Temperature: -10 to 110 deg C

Service Restriction:

1. Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
2. For sea water piping systems in which sea water may be retained within the piping system in a stagnant or low flow condition (i.e., less than 1 m/sec), the following grades are not to be used for the piping or piping components:
 - 304 and 304L stainless steels
 - 316 and 316L stainless steels with a molybdenum content of less than 2.5%
 - Other stainless grades when used are to be confirmed suitable for the application by the manufacturer.
3. Not intended for liquefied gas piping systems
4. Where the expansion joints are used in oil piping systems (fuel, lubricating or hydraulic oil), the expansion joints are to be used together with duly tested flame guards.
5. The suitability of the subject expansion joints for use in piping systems conveying chemicals will be carried out on a case by case basis for application on ABS Classed Vessels.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Expansion joints are to bear permanent identification, such as manufacturer's name or trademark, standard of compliance, material identity, pressure rating, etc., as required by the standard of compliance or the manufacturer's specification. Such markings may be cast or forged integral with, stamped on, or securely affixed by nameplate on the component, and are to serve as a permanent means of identification of the component throughout its service life in accordance with 4-6-1/7.1.4 of the Marine Vessels Rules.
3. Expansion joints are to be installed in accordance with the manufacturer's specifications, instructions and recommendations and in accordance with 4-6-2/9.5 of the ABS Rules for Building and Classing Marine Vessels.
4. Expansion Joints are to be installed in accessible locations to permit inspection and/or periodic servicing.

Notes/Drawing/Documentation:

Songjiang Group Quality Inspection Department, Report No. SJJT20220220628001~SJJT20220220628003,
Hydrostatic Burst Pressure Test dated 28 June 2022, Revision: -, Pages: 3
Standard Testing Group Co., Ltd., Report NO. STD-20221106-021N-1, Fire Resistance Test Report dated 6
November 2022, Revision: -, Pages: 10

Drawing No. SJCKST and SJCKXT, Rubber Expansion Joint, Revision: -, Pages: 2

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Terms of Validity:

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STANDARDS

ABS Rules:

2022 Rules for Conditions of Classification 1-1-4/7.7, 1-1-A3 and A4, which covers the following:

2022 Rules for Building and Classing Marine Vessel Rules: 4-6-1/7.1, 4-6-2/5.8.1, 4-6-2/9.5

2022 Rules for Conditions of Classification - Offshore Units and Structures 1- 1-1-4/9.7,1-1-A2, 1-1-A3, which covers the following:

2022 Rules for Building and Classing Mobile Offshore Unit: 4-2-1/11.7

2022 Rules for Conditions of Classification - Light and High Speed Craft 1-1-4/11.9, 1-1-A2 and A3, which covers the following:

2022 Rules for Building and Classing High-Speed Crafts: 4-4-1/9.7

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA