



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

20-2001995-PDA
25-Jun-2020
24-Jun-2025
Hamburg Engineering Department

CERTIFICATE OF Product Design Assessment

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

FKB GMBH

located at

WEHRSTR. 15, D-78727 OBERNDORF, Germany

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 Pipe Clamp

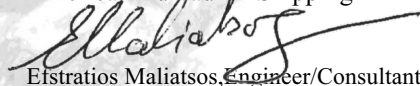
Model RSB Tube Clamp / RSB Fastening Systems.

This Product Design Assessment (PDA) Certificate remains valid until 24/Jun/2025 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


Efstratios Maliatsos, Engineer/Consultant

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 (2010)

FKB GMBH

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Tier: 2 - PDA Issued

Product: Pipe Clamp

Model: RSB Tube Clamp / RSB Fastening Systems.

Intended Service:

RSB Tube Clamp / RSB Fastening Systems for on-board use on vessels and marine structures.

Description:

The RSB Tube Clamp / RSB Fasteners are modular system designed to suit with a wide range of demands.

Following types are available:

Series: "A" (Light Gauge/L) - Clamp size: 0,1,2,3,4,5,6,7 and 8 for pipe outside diameters from 6 mm to 101.8 mm.

Series: "B" (Twin Tube Clamp Series) - Clamp size: 1,2,3,4 and 5 for pipe outside diameters from 6 mm to 42 mm.

Series: "C" (Heavy Gauge/S) - Clamp size: 1,2,3,4,5,6,7 and 8 for pipe outside diameters from 6 mm to 220 mm.

U-bolt Clamp Series (with 2 & 4 nuts): Nominal size: 15 to 750 for tube outside diameters from 17.2 mm to 762 mm.

Flat Steel Tube Clamp/Series "A" : For nominal size: 18 to 288 (light duty/L) and size: 22 to 288 (normal duty design).

Hydraulic Steel Clamp Series for nominal size: 25 to 60.

Rating:

Temperature range of clamp body types:

Polypropylene (PP): -30°C to +90°C, Polyamide (PA 6): -40°C to +120°C.

Rubber: -50°C to +120°C, Aluminum: up to +300°C.

Service Restriction:

1. Unit Certification is not required for this product.
2. 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.
3. Pipe clamps used for on-board installation shall have provided upper and lower steel cover plates (including those with clamp body made from aluminium material) and only those types are acceptable that have at least two (2) fastening screws that will keep the tubes in place even in case of distortion of the clamp body.

Comments:

1. The application and installation of the "RSB Tube Clamp / RSB Fastening Systems" is to be in accordance with the manufacturer's specifications and instructions.
2. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Drawing No. Correspondence, email of May 28th, Revision: -, Pages: -

Drawing No. PDA request, PDA request, Revision: -, Pages: -

Drawing No. RSB-Katalog D-GB und F-ES_2019, Catalog, Revision: -, Pages: 105

Drawing No. declaration of conformity, declaration of conformity, Revision: -, Pages: -

Terms of Validity:

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STANDARDS

ABS Rules:

2020 Marine Vessels Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-1/3.1

2020 Mobile Offshore Units Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-1/3.1

National:

DIN 3015 - Part 1 (1999-01), DIN 3015 - Part 2, (1999-01) DIN 3015 - Part 3 (1999-01), DIN 3567 (1963-08), DIN 3570 (1968-10).

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA