



## Confirmation of Product Type Approval

**Company Name:** LOKRING TECHNOLOGY, LLC

**Address:** 38376 APOLLO PARKWAY WILLOUGHBY OH 44094 United States

**Product:** Elastic Strain Preload (ESP) Fittings

**Model(s):** CN-200, CN-700, CN-3300

**Endorsements:**

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	21-2200435-PDA	11-FEB-2022	10-FEB-2027
Manufacturing Assessment (MA)	22-5404070	29-AUG-2022	28-AUG-2027
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

3 - Type Approved, unit certification not required

### **Intended Service**

Marine & Offshore Application - For joining copper nickel Pipe and Tube

### **Description**

- 1) CN-200 for Copper Nickel, MIL-T-16420, ¼" through 2" NPS.
- 2) CN-700 for Copper Nickel, MIL-T-16420, ¼" through 2" NPS.
- 3) CN-3300 Copper Nickel Tube, MIL-T-16420, ¼" O. D.

### **Ratings**

For Fittings, Sizes, Pressure Rating, etc. see attached "pdf" for details.

### **Service Restrictions**

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.

The CN-200 and CN-700 fittings are not to be used where Pressure Pulsation is expected in accordance with ABS MVR 4-6-2/Table 12, Note 1.

### **Comments**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

### **Notes, Drawings and Documentation**

Drawing No. Email 12-8-16, Email dated Dec 8-16 agreement to split, Revision: -, Pages: 1

Prior info was on one type approval 03-HS386064-4-PDA. This contained Copper nickel, stainless steel and carbon steel fittings. It was agreed to make each material class a separate PDA.

**Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 10/Feb/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.

**ABS Rules**

The Rules for Conditions of Classification, Part 1 2022 Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2022 Rules for Building and Classing Marine Vessel Rules: 4-6-2/5.9, 4-6-4/13.7.1(b), 4-6-4/Table 4, 4-6-2/5.9

**International Standards**

IACS P2.11.5 (2021)

**EU-MED Standards**

NA

**National Standards**

ASTM F 1387 (2019)

**Government Standards**

MIL-T-16420 (1965)

**Other Standards**

EEMUA 234 (2015)



A handwritten signature in black ink, appearing to read 'Joseph W. ...', is written over the printed text.

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 08-Apr-2026 8:07

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

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 prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.