



CERTIFICATE NUMBER	20-2016356-PDA
EFFECTIVE DATE	06-Aug-2020
EXPIRY DATE	05-Aug-2025
ABS TECHNICAL OFFICE	London Engineering Department

CERTIFICATE OF

## Product Design Assessment

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

### **PARKER HANNIFIN MANUFACTURING LIMITED**

located at

**INSTRUMENTATION PRODUCTS DIVISION EUROPE, RIVERSIDE  
ROAD, BARNSTAPLE, United Kingdom, EX31 1NP**

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 Tube Fittings**

**Model Parker CPI / A-LOK® Tube Fittings**

This Product Design Assessment (PDA) Certificate remains valid until 05/Aug/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

Mohammed K.M. Abbas, 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)



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**Tier: 2 - PDA Issued**

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**Product:** Tube Fittings  
**Model:** Parker CPI / A-LOK® Tube Fittings  
**Intended Service:**  
Tube fittings for marine and offshore systems

**Description:**  
Tube fittings including unions, tees, elbows 45 degree & 90 degree, crosses, female and male connections, port connectors, reducers, plugs, caps & adaptors

**Rating:**  
Tube outside diameters and Maximum Working Pressure;  
3 mm(1/8") : 660 bar  
18 mm(5/8") : 450 bar  
20 mm(3/4") : 379 bar  
22 mm(7/8") : 305 bar  
25 mm(1") : 241 bar  
Material; 316 or 304 stainless steel, carbon steel, copper, aluminium and Monel 400.  
Consult Manufacturer for temperature and pressure ratings.

**Service Restriction:**

- 1) Unit Certification is not required for this product. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
- 2) Not to be used if fittings are required to be approved fire resistant in accordance with ABS Marine Vessel Rules 4-6-2/Table 10.
- 3) Each fitting is to be marked with 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.

**Comments:**

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

**Notes/Drawing/Documentation:**

- 1) Parker CPI / A-LOK® Tube Fittings Catalog 4230/4233.
- 2) Pressure impulse and Vibration Test Report RR1875 from The British Hydromechanics Research Association dated July 1982
- 3) Evaluation Test Report G342/85 from Central Electricity Generating Board dated July 1985
- 4) Vibration Test Report C.690 from SIRA Ltd dated August 1989
- 5) Pressure Test Report C.1068 from SIRA Ltd dated June 1994(ISS.2)
- 6) This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate remains valid until 05/Aug/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



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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.

**STANDARDS**

**ABS Rules:**  
2020 Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/5.9.  
2020 Rules for Mobile Offshore Units 1-1-4/9.7, 1-1-A2, 1-1-A3.

**National:**  
NA

**International:**  
NA

**Government:**  
NA

**EUMED:**  
NA

**OTHERS:**  
NA