



## Confirmation of Product Type Approval

**Company Name:** PARKER HANNIFIN MANUFACTURING SRL

**Address:** POLYMER HOSE DIVISION EUROPEVIA G.B. PIRELLI 6 VENIANO CO 22070 Italy

**Product:** Flexible Hose

**Model(s):** 462, 462TC, 462ST, 492, 492TC, 492ST

**Endorsements:**

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	24-0127080-PDA	13-NOV-2024	12-NOV-2029
Manufacturing Assessment (MA)	24-6661085	16-OCT-2024	15-OCT-2029
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

3 - Type Approved, unit certification not required

### **Intended Service**

Flexible lines for petroleum and water-glycol based fluids, lubricating oils, air and water.

### **Description**

Oil resistant synthetic rubber hoses reinforced with one or more high tensile steel wire braids covered by synthetic rubber.

Cover types: Standard cover made in Black NBR/PVC compound, TC special cover made in special Black NBR/PVC compound, ST special cover made in UHMWPE film compound.

### **Ratings**

462: size from DN6 to DN76, pressure from 7 MPa to 42.5 MPa

492: size from DN6 to DN31, pressure from 7.5 MPa to 28 MPa

Temperature Range: -40°C up to +100°C with the following exceptions Air: Tmax +70°C, Water: Tmax +85°C.

For additional details, refer to the attached document.

### **Service Restrictions**

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) Hoses are to be completed with factory assembled end fittings or factory supplied end fittings installed in accordance with manufacturer's specifications.
- 3) End connections are to comply with applicable requirements and limitations of the Rules for the intended service (e.g. Marine Vessels Rules 4-6-7/3.5.1)
- 4) Hose assemblies are to be installed only where flexibility is required and are not to be subject to torsional deflection under normal conditions; hose length is to be limited to that required by flexibility only.
- 5) Not to be used for installations where repeated and/or frequent flexing is expected.
- 6) For air above 1,7 MPa the hose cover must be pin pricked ad per Manufacturer's recommendations.
- 7) Not to be used in high pressure fuel oil injection systems, steam systems or oil supply lines to boilers.
- 8) Flexible hoses are to be permanently marked by the manufacturer with the following details: Hose manufacturer's name or trademark, Date of manufacture (month/year), Designation type reference, Nominal diameter, Pressure rating, Temperature rating.
- 9) Flexible hose assemblies for essential services or containing either flammable or toxic media are not to exceed 1.5 m in length.

#### **Comments**

- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- Manufacturer recommended fittings as per attachment.

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

4 C Hose spec GHS 462

16 0 LAPI fire test 462-4 hose at LAPI laboratory dated 03 Apr 2014

17 0 LAPI fire test 462-16 hose at LAPI laboratory dated 03 Apr 2014

18 0 LAPI fire test 462-48 hose at LAPI laboratory dated 03 Apr 2014

45 0 Burst test DNV survey 1Burst test DNV survey 2 at PARKER Plant dated 22 Apr 2014 52 0 HS-492TC

54 0 462TC catalogue page

55 0 492 catalogue page

63 0 462 Impulse reports at PARKER Plant dated 15 May 2014

65 0 492 impulse reports at PARKER Plant dated 23 Oct 2013

101 0 STR 492 TA

102 0 STR 462 TA

214 0 HS-492

218 0 Burst pressure report 492-20 at PARKER Plant dated 27 Nov 2014

207 0 HS-462TC

208 0 HS-462ST

209 0 HS-492TC

210 0 HS-492ST

100 0 HS-DO2

**Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 12/Nov/2029 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**

2024 Rules for Conditions of Classification, 1A-1-4/7.7, 1A-1-A3, 1A-1-A4, which covers the following:

2024 Marine Vessel Rules: 4-6-2/5.7, 4-6-7/3.5.1

2024 Steel Vessels for Service on Rivers and Intracoastal Waterways Rules: 4-3-1/7.21

2024 Rules for Conditions of Classification, 1C-1-4/11.9, 1C-1-A2 and A3, which covers the following:

2024 High Speed Craft Rules: 4-4-1/9.19

2024 Rules for Conditions of Classification, 1B-1-4/9.7, 1B-1-A2, 1B-1-A3, which covers the following:

2024 Mobile Offshore Units Rules: 4-2-1/11.29

**International Standards**

NA

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA





Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 19-Nov-2024 3:15

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.