



## Confirmation of Product Type Approval

**Company Name:** PARKER HANNIFIN MANUFACTURING SRL

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

**Product:** Flexible Hose

**Model(s):** 372

**Endorsements:**

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	21-2170403-PDA	05-NOV-2021	04-NOV-2026
Manufacturing Assessment (MA)	19-GE3694507	05-JUL-2019	07-AUG-2024
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

3 - Type Approved, unit certification not required

### **Intended Service**

Hydraulic medium pressure flexible lines for Petroleum and Water-Glycol based fluids, Lubricating Oils, Air and Water.

### **Description**

Compact Hydraulic hose of Nitrile rubber (NBR), reinforced with three high tensile steel wire braids covered by synthetic rubber.

### **Ratings**

From DN10 to DN25, pressure from 44.5 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 further details see attached table of ratings)

### **Service Restrictions**

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) Hoses are to be complete 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 limitation of Rules (4-6-2/5.5.4, 4-6-2/5.5.5, 4-6-7/3.5.1, 4-6-7/5.3.2).
- 4) Hose assemblies are to be installed only where flexibility is required, in clearly visible and readily accessible locations 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 as per Manufacturer's recommendations.
- 7) Flexible hoses are to be permanently marked by the manufacturer with the following details:
  - a) Hose manufacturer's name or trademark.
  - b) Date of manufacture (month/year).
  - c) Designation type reference.
  - d) Nominal diameter.
  - e) Pressure rating
  - f) Temperature rating.
- 8) The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006

#### **Comments**

Manufacturer recommended fittings: 372:70

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

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

372 Data Sheet

GHS 372 Hose Specification

372 Test report No. 1393 (Veniano CO, Italy, 10 Aug 2004)

372 Test report No. 3308 (Veniano CO, Italy, 25 Jul 2017)

372 Quality test report (Veniano CO, Italy, 25 Sep 2007)

#### **Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 04/Nov/2026 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**

2021 Rules for Conditions of Classification, 1-1-4/7.7 & 1-1 Appendix 3 and 4, which covers the following:

2021 Rules for Building and Classing Marine Vessels Rules: 4-6-2/5.7

2021 Guide for Building and Classing Yachts: 4-1-1/3.3, 4-4-1/9.19

2021 Rules for Conditions of Classification - Mobile Offshore Units, 1-1-4/9.7 & 1-1 Appendix 2 and 3, which covers the following:

2021 Guide for Classification of Drilling Systems: 4-2-1/11.29

2021 Rules for Conditions of Classification - High-Speed Crafts 2021 1-1-4/11.9, 1-1-Appendix 2 & 3, which covers the following:

2021 Rules for Conditions of Classification - High-Speed Crafts: 4-4-1/9.19

**International Standards**

NA

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



A handwritten signature in blue ink, appearing to read 'Joseph W. ...'.

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 18-Nov-2021 5:23

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.