



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): 387, 387TC, 387ST; 487, 487TC, 487ST; 722TC, 722CLF, 787, 787TC, 787ST; 797, 797TC, 797ST

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-0068124-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, CLF special cover made in NBR/EPDM Chlorine free compound.

Ratings

387: from DN 6 to DN 25, 21 MPa

487: from DN6 to DN 19, 28 MPa

722: from DN10 to DN25, 28 MPa

787: from DN12 to DN25, 35 MPa

797: from DN12 to DN25, 42 MPa

Temperature Range: -40°C up to +125°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 of 722 model must be pin pricked as 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

LAPI Fire test report no. 494 to 503/14/AC dated 25 March 2014 at LAPI laboratory

Drawing No. 13, LAPI Fire test 387-4 hoses ,dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 14, LAPI fire test 387-8 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 15, LAPI fire test 387-16 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 19, LAPI fire test 487-4 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 20, LAPI fire test 487-8 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 21, LAPI fire test 487-12 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 22, LAPI fire test 722TC-6 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 23, LAPI fire test 722TC-12 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 24, LAPI fire test 722TC-16 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 25, LAPI fire test 787-8 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 26, LAPI fire test 787-12 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 27, LAPI fire test 787-16 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 28, LAPI fire test 797-8 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 29, LAPI fire test 797-12 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 30, LAPI fire test 797-16 hose, dated 25 March 2014 at LAPI laboratory Revision: 0

Drawing No. 38, STR 387, Revision: 0

Drawing No. 39, STR 487, Revision: 0

Drawing No. 40, STR 722TC, Revision: 0

Drawing No. 41, STR 787, Revision: 0

Drawing No. 42, STR 797, Revision: 0

Burst test report no. 2827 to 2835 and 2840 to 2853 dated 22 April 2014.

Drawing No. 44, Burst test DNV survey dated 22 April 2014 at PARKER plant 1, Revision: 0

Drawing No. 219, Burst pressure report 722TC-16, dated 27 November 2014 at PARKER plant, Revision 0

Drawing No. 5, Hose spec GHS 387TC, Revision: 01

Drawing No. 56, 722CIF catalogue page, Revision: 0

Drawing No. 57, 722TC catalogue page, Revision: 0

Drawing No. 58, 787TC catalogue page, Revision: 0

Drawing No. 59, 797TC catalogue page, Revision: 0

Drawing No. 6, Hose spec GHS 487TC, Revision: 01

Drawing No. 62, 387 impulse reports, dated 02 February 2014 at PARKER plant Revision: 0

Drawing No. 64, 487 impulse reports, dated 14 January 2014 at PARKER plant Revision: 0

Drawing No. 66, 722TC impulse reports, dated 23 February 2012 at PARKER plant Revision: 1

Drawing No. 67, 787-797TC impulse reports, dated 22 November 2010 at PARKER plant Revision: 0

Drawing No. 7, Hose spec GHS-722TC, Revision: D

Drawing No. 8, Hose spec GHS-787TC, Revision: E

Drawing No. 9, Hose spec GHS-797TC, Revision: E

Drawing No.215, HS-722CLF, Revision 0

Drawing No. 216, GHS-787ST, Revision 0

Drawing No. 217, GHS-797ST, Revision 1

Drawing No. 100, HS-DO2, Revision: 0

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



A handwritten signature in black ink, appearing to read 'James J. White'.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 19-Nov-2024 3:26

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.