



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): R35TC, R35ST, RS35TC, RS35ST

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	20-2001812-PDA	21-AUG-2020	20-AUG-2025
Manufacturing Assessment (MA)	19-GE3694507	05-JUL-2019	07-AUG-2024
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3

Intended Service

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

Description

Oil resistant synthetic rubber hoses reinforced with four or six spirals high-tensile steel wire covered by synthetic rubber.

For details see Manufacturer's data sheets.

Ratings

See attached Table of ratings

Temperature Range R35: -40°C up to +120°C

Temperature Range RS35: -40°C up to +100°C

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. Steel Vessel 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 installed in applications where flexing in service is expected.
- 6) For air above 1,7 MPa the hose cover 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) The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006

Comments

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) Manufacturer recommended fittings: see attached Table of ratings
- 3) Cover types:
 - TC special cover made in special Black NBR/PVC compound, ST special cover made in UHMWPE film compound.

Notes, Drawings and Documentation

Drawing No. 61, R35TC-RS35TC catalogue page, Revision: 0, Pages: 1

Drawing No. 11, Hose spec GHS-R35TC, Revision: 01, Pages: 6

Drawing No. 12, Hose spec GHS-RS35TC, Revision: 01, Pages: 5

Burst test reports no. 3048 (Veniano, Co, Italy, 12-Feb-2015) and no. 3065 (Veniano, CO, Italy, 04-Mar-2015)

BP R35TC-40 test 1, Revision: 0, Pages: 2 (Veniano, CO, Italy, 22 April 2014)

Burst test report R35TC-40 2nd test, Revision: 0, Pages: 1 (Veniano, CO, Italy, 04-Mar-2015)

Burst test report no. 2836 to 2839 (Veniano, CO, Italy, 22 April 2014)

Burst Pressure test report R35TC RS35, Revision: 0, Pages: 8 (Veniano, CO, Italy, 22 April 2014)

LAPI Fire test report no. 623.0IS0110/14 (Prato, Italy, 17 April 2014) DN 76 (size 48)

LAPI fire test RS35TC-48 hose, Revision: 0, Pages: 10 (Prato, Italy, 17 April 2014)

LAPI Fire test report no. 596.0IS0110/14 (Prato, Italy, 17 April 2014) DN 63 (size 40)

LAPI fire test R35TC-40 hose, Revision: 0, Pages: 10 (Prato, Italy, 17 April 2014)

LAPI Fire test report no. 595.0IS0110/14 (Prato, Italy, 17 April 2014) DN 38 (size 24)

LAPI fire test R35TC-24 hose, Revision: 0, Pages: 10 (Prato, Italy, 17 April 2014)

LAPI Fire test report no. 594.0IS0110/14 (Prato, Italy, 17 April 2014) DN 19 (size 12)

LAPI fire test R35TC-12 hose, Revision: 0, Pages: 10 (Prato, Italy, 17 April 2014)

Impulse Test Reports R35TC and RS35TC Pages: 4 (Veniano, CO, Italy, 09 Dec 2013)

Drawing No. HS-DO2, HS-DO2, Revision: 0, Pages: 19

LAPI Fire test report no. 595.0IS0110/14 (Veniano, CO, Italy, 17 April 2014) DN 38 (size 24)

LAPI fire test R35TC-24 hose, Revision: 0, Pages: 10 (Veniano, CO, Italy, 22 April 2014)

LAPI Fire test report no. 594.0IS0110/14 (Prato, Italy, 17 April 2014) DN 19 (size 12)

LAPI fire test R35TC-12 hose, Revision: 0, Pages: 10 (Veniano, CO, Italy, 22 April 2014)

Impulse Test Reports R35TC and RS35TC Pages: 4 (Veniano, CO, Italy, 09 Dec 2013)

Drawing No. HS-DO2, HS-DO2, Revision: 0, Pages: 19

Drawing No. Decl of Conformity PDA R35 may2020, Decl of Conformity PDA R35 may2020, Revision: 0, Pages: 1

Drawing No. PDA Application Form R35 May2020, PDA Application Form R35 May2020, Revision: 0, Pages: 1

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 20/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.

ABS Rules

2020 Rules for Conditions of Classification, 1-1-4/7.7 & 1-1-A3 and 1-1-A4, which covers the following:

2020 Rules for Building and Classing Marine Vessels 4-6-2/5.7, 4-6-7/3.5.2

2020 Rules for Conditions of Classification - Mobile Offshore Units, 1-1-4/9.7 & 1-1-A2 and 1-1-A3, which covers the following:

2020 Rules for Building and Classing Mobile Offshore Units 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 blue ink, appearing to read "Joseph W. White".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 17-Sep-2020 4:37

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.