



Confirmation of Product Type Approval

Company Name: OLEODINAMICA TOSCANA SRL

Address: VIA REDOLONE, 53 51030 Italy

Product: Flexible Hose

Model(s): GH466-20, GH466-24, GH663-32, GH781

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	16-GE1543053-PDA	23-SEP-2016	22-SEP-2021
Manufacturing Assessment (MA)	20-4272157	08-MAY-2020	07-MAY-2025
Product Quality Assurance (PQA)	NA	NA	NA

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Intended Service

GH466: High pressure hydraulic systems with constant high working pressure for use with petroleum based fluids. GH781: Hydraulic system service with petroleum and water-based fluids for industrial services.

Description

GH466: Synthetic NBR rubber tube, 6 high tensile spiral wire layers reinforcement with synthetic CR rubber cover.

GH781: Synthetic rubber tube, 2 wire braided reinforcement with DURA-TUFF synthetic rubber cover.

Ratings

GH466

From DN31 to DN51.

Pressure from 420 bar to 40 bar.

Temperature -40°C/+120°C.

GH781

From DN6 to DN51.

Pressure from 448 bar to 110 bar.

Temperature -46°C/+126°C.

For details refer to attachment.

Service Restrictions

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.

Comments

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

1) Hoses are to be complete with factory assembled end fittings or factory supplied end fittings installed in accordance with manufacturer's specifications.

2) End connections are to comply with applicable requirements and limitations of the Rules for the intended service (e.g. 4-6-7/3.5.1) of the Steel Vessel Rules

3) 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.

4) Not to be installed in applications where large amount of repeated flexing is expected.

5) Marking for Flexible hoses are to be permanently marked by the manufacturer with the following details as per 4-6-2/5.7.6 of the Steel Vessel Rules:

- Hose manufacturer's name or trademark.
- Date of manufacture (month/year).
- Designation type reference.
- Nominal diameter.
- Pressure rating
- Temperature rating.

Notes, Drawings and Documentation

Drawing No. 1502367bt, burst test dated 16 December 2015, Revision: 0, Pages: 1

Drawing No. 1502367ds, data sheet, Revision: 0, Pages: 1

Drawing No. 1502367pda, pda, Revision: 0, Pages: 1

Drawing No. ABS Manufacturing Assessment VR2924223, ABS Manufacturing Assessment VR2924223, Revision: 0, Pages: 1

Drawing No. Binder1, binder, Revision: 0, Pages: 1

Drawing No. Burst Test - Bend Test, Burst Test - Bend Test dated 01 April 2016, Revision: 0, Pages: 1

Drawing No. Correspondence, Asbestos free declaration, Revision: 1, Pages: 1

Drawing No. Correspondence, Declaration of Conformity, Revision: 0, Pages: 1

Drawing No. TAC ABS GH 11-GE764004-PDA, TAC ABS GH 11-GE764004-PDA, Revision: 0, Pages: 1

Drawing No. WORRevisionReport, WORRevisionReport, Revision: 0, Pages: 1

Drawing No. abs tac request 1, abs tac request 1, Revision: 1, Pages: 1

Drawing No. gh466-, gh466, Revision: 0, Pages: 1

Drawing No. gh781 1, gh781 1, Revision: 1, Pages: 1

Drawing No. tac abs gomma provv1, tac abs gomma provv, Revision: 0, Pages: 1

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 22/Sep/2021 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

2016 Rules for Conditions of Classification - Offshore Units and Structures 1-1-4/9.7, 1-1-Appendix 2 and 3 which covers the following:

2016 Mobile Offshore Drilling Unit Rules 4-2-1/11.29

2016 Rules for Conditions of Classification, 1-1-4/7.7, 1-1-Appendix 3 and 4, which covers the following:

2016 Steel Vessel Rules 4-6-2/5.7

2016 Steel Vessel Rules Under 90 Meters 4-4-1/9.19

2016 Offshore Supply Vessel Rules 4-6-2/5.7

2016 Guide for Building and Classing Yachts 4-4-1/9.19

2016 High Speed Craft Rules 1-1-4/11.9, 1-1-Appendix 2 and 3, 4-4-1/9.19

International Standards

SAE100 R16 Ed. 2013

EN 857 2SC, Ed. 2008

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA





Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 18-Nov-2020 4:34

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.