



Confirmation of Product Type Approval

Company Name: ALFAGOMMA HYDRAULIC S.P.A.

Address: VIA E. MATTEI 6 CASTELNUOVO VOMANO I-64020 Italy

Product: Non-Metallic Flexible Hose

Model(s): ABT5K MINETUFF leaDer ABT5K SUPERTUFF leaDer

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-0014456-PDA	24-OCT-2024	23-OCT-2029
Manufacturing Assessment (MA)	20-4430198	08-SEP-2020	07-SEP-2025
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Hydraulic fluids: ships and offshore installations

Description

Non-metallic hose with permanently attached couplings

(refer to attached Table of ratings for details)

Ratings

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

3) Hoses are to be complete with factory assembled end fittings or factory supplied end fittings installed in accordance

with manufacturer's specifications.

4) 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).

5) 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.

6) Not to be used in high pressure fuel oil injection systems, steam systems or oil supply lines to boilers.

7) Not to be used for installations where repeated and/or frequent flexing is expected.

8) Flexible Hoses are to be permanently marked by the manufacturer with the following details: Hose manufacturer's

name or trademark, date of manufacturer (month/year), designation type reference, nominal diameter, pressure and

temperature rating in accordance with Marine Vessels Rules 4-6-2/5.7.6.

Comments

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

Notes, Drawings and Documentation

Drawing No. Datasheet ABT5K SUPERTUFF leaDer

Drawing No. Datasheet ABT5K MINETUFF leaDer

Drawing No. C18S fitting

Test reports booklet (fire tests, burst tests, impulse tests) - Castelnuovo Vomano (TE), Italy

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 23/Oct/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, 1-1-4/7.7 & 1-1 Appendix 3 and 4

2024 Rules for Conditions of Classification - Mobile Offshore Units, 1-1-4/9.7 & 1-1 Appendix 2 and 3 (including Guide for Classification of Drilling Systems)

2024 Rules for Conditions of Classification - High-Speed Crafts 2021 1C-1-4/11.9, 1-1 Appendix 2 & 3

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 'Joseph W. ...', is positioned above the printed name and date.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 14-Jan-2025 9:41

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.

HOSE/FITTING COMBINATION						
ABT5K EVOLUTION DC LEADER MINETUFF & ABT5K EVOLUTION DC LEADER SUPERTUFF						
HOSE	REFERENCE SPECIFICATION	DN (mm)	Inch	DASH	Working Pressure	INSERT
						CODE
ABT5K EVOLUTION DC LEADER MINETUFF	ISO 18752	06	1/4"	04	350 bar	C18Sxxxxx -04xxxx
		10	3/8"	06	350 bar	C18Sxxxxx -06xxxx
		12	1/2"	08	350 bar	C18Sxxxxx -08xxxx
		16	5/8"	10	350 bar	C18Sxxxxx -10xxxx
		20	3/4"	12	350 bar	C18Sxxxxx -12xxxx
		25	1"	16	350 bar	C18Sxxxxx -16xxxx
		32	1.1/4"	20	350 bar	C18Sxxxxx -20xxxx
		38	1.1/2"	24	350 bar	C18Sxxxxx -24xxxx
ABT5K EVOLUTION DC LEADER SUPERTUFF		06	1/4"	04	350 bar	C18Sxxxxx -04xxxx
		10	3/8"	06	350 bar	C18Sxxxxx -06xxxx
		12	1/2"	08	350 bar	C18Sxxxxx -08xxxx
		16	5/8"	10	350 bar	C18Sxxxxx -10xxxx
		20	3/4"	12	350 bar	C18Sxxxxx -12xxxx
		25	1"	16	350 bar	C18Sxxxxx -16xxxx
		32	1.1/4"	20	350 bar	C18Sxxxxx -20xxxx
		38	1.1/2"	24	350 bar	C18Sxxxxx -24xxxx

Attachment to PDA cert No. 24-0014456-PDA.
Company name: ALFAGOMMA HYDRAULIC S.P.A.
Model: ABT5K MINETUFF leaDer & ABT5K SUPERTUFF leaDer
Issuance date: 24-oct-2024; expiration date: 23-oct-2029.
Table of ratings revision No.: 0