EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00007NV
Revision no.:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS, Veritasveien 1, 1363 Høvik, Norway under the authority of the Government of Norway.

This is to certify:

that the **Materials other than steel for pipes conveying oil or fuel oil: — flexible pipe assemblies and compensators**

with type designation(s)
Alfagomma 1SN Evolution 1SN HT150, Dunlop Hiflex Commander 150 1SN PLUS

issued to

Alfagomma Hydraulic S.p.A.

Via Enrico Mattei 6 64020 Castelnuovo Vomano – Castellalto TE Italy

is found to comply with the Implementing Regulation **(EU) 2026/1434** for
Item no. **MED/3.15c** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. II-2/4, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.36(63)-(1994 HSC Code) 10, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 10, IMO MSC/Circ.1120, SOLAS 74 Reg. X/3

Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2026-08-31**

Expiry date: **2031-08-30**

for **DNV AS**

DNV local unit:
Italy/Malta CMC

Approval Engineer:
Jo Skjeggestad Rangnes

Notified Body no.: **0575**

Christine Mydlak-Röder
Head of Notified Body

NORSK AKKREDITERING PROD 019

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer’s Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees (“DNV”) arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description
Flexible non-metallic hose assemblies (MED/3.15c):

Please see Appendix: Product Description

Application/Limitation
Scope of approval covers only the fire resistance capability of the hoses while the review of assembling of the approved hoses and end fittings for DNV Class approval are not covered under this certification.

Please see Appendix: Application/Limitation

Type Examination documentation

Tests carried out
Fire tests according to ISO 15540/15541.

Marking of product
For traceability to this certificate, each hose shall be marked with:
- Manufacturer's name or trademark
- Specification or hose name
- Hose size and type designation
- Date of manufacture
- Mark of conformity according to Article 10 of the Council Directive 2014/90/EU

Mark of Conformity may only be affixed to the product when the corresponding certification related to production-control phase module (D, E, or F) is valid.

APPENDIX

Product Description

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Alfagomma Evolution 1SN HT150 (Dunlop Hiflex Commander 150 1SN PLUS), designed according to EN 853 1SN and SEA 100 R1AT

Inner tube: Oil resistant synthetic Rubber
Reinforcement: One steel wire-braid
Cover: Abrasion, ozone, and hydrocarbon resistant synthetic rubber

Couplings:

Size			Material: 11SMnPb30 (1.0718) EN 10277	
DASH	DN	Inch	No-Skive Ferrule	Skive Ferrule
4	06	¼	H1200AD1-040000	H1100SK1-040000
6	10	3/8	H1200AD1-060000	H1100SK1-060000
8	13	½	H1200AD1-080000	H1100SK1-080000
10	16	5/8	H1200AD1-100000	H1100SK1-100000
12	19	¾	H1200AD1-120000	H1100SK1-120000
16	25	1	H1200AD1-160000	H1100SK1-160000
20	31	1 ¼	H1200AD1-200000	H1100104-200000
24	38	1 ½	H1200AD1-240000	H1100104-240000
32	51	2	H1200AD1-320000	H1100104-320000

APPENDIX

Application/Limitation

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Hose assemblies covered by this certificate are tested according to:

1) EN ISO 15540:2016 – Fire resistance of hose assemblies – Test methods
2) EN ISO 15541:2016 – Fire resistance of hose assemblies – Requirements for the test bench

Maximum allowable working pressure:

Size (DN)	06	10	13	16	19	25	31	38	51
Pressure (bar)	225	180	160	130	105	88	63	50	40