



TYPE APPROVAL CERTIFICATE
No. MAC069921CS/001

This is to certify that the product identified below is in compliance with the regulations herewith specified.

| | |
|-----------------------------|--|
| <i>Description</i> | Non metallic flexible hoses |
| <i>Type</i> | AGDogLeg |
| <i>Applicant</i> | ALFAGOMMA HYDRAULIC SPA VIA ENRICO MATTEI 6 64020 Castelnuovo Vomano (TE) ITALY |
| <i>Manufacturer</i> | ALFAGOMMA HYDRAULIC SPA |
| <i>Place of manufacture</i> | Via dell'Industria 3-12 20882 Bellusco (MB) ITALY |
| <i>Reference standards</i> | Parte C, Cap. 1, Sez. 10 dei Regolamenti RINA |

Issued in **GENOVA** on **October 25, 2021**. *This Certificate is valid until* **October 23, 2026**

RINA Services S.p.A.
Marco Dardano

This certificate consists of this page and 1 enclosure

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AGDogLeg

Reference documentation:

Documentation approved / filed with letter PPVT/2021/00812/CRLVA

- *Constructional drawings and specification approved with dwg PPVT36850*
- *Test Report: Filed with PPVT-36849*

Fire Test acc to ISO 15540:2016 (with insulation)

Burst test 2021/AN/01/666

Impulse pressure test

Pull out test

Shock and vibration test

Vibration with pressure pulsation

Technical characteristic

Flexible hoses with 90° mechanical joint

Materials:

TUBE: Black conductive NBR

REINFORCEMENT: High tensile textile cords with embedded steel helix wire – Antistatic wires

OUTER COVER: Black conductive CR -

JOINTS : Aisi 316, BR/Al CG333G

Diameter of pipes : DN 50 up to DN200

Design pressure : 16 bar

Working Temperature : -10°C up to +90°C

Application

Large bore hose assembly specifically designed for anti-shock and noise reduction features, used in maritime and navy industries to convey:

fuel oil , hydraulic oil, sea water, fresh water

Remarks

The installation on board is to be carried out in accordance with Manufacturer's instructions.

For application in conformity to ISO 15540 insulating cushion of flame retardant material is required, as alternative, type approved insulating cover can be used.

The products are to be permanently marked, for traceability, in compliance with para. 7.2 of RINA "Rules for the type approval of flexible hoses and expansion joints".

GENOVA October 25, 2021