



**EC TYPE EXAMINATION (MODULE B)  
CERTIFICATE No. MED193821CS**

***This is to certify*** that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2021/1158.

<i>MED Item N°</i>	<b>MED/3.15c</b>
<i>Description</i>	<b>Materials other than steel for pipes conveying oil or fuel oil: (c) flexible pipes assemblies and compensators</b>
<i>Type</i>	<b>AG JOINT AUTO</b>
<i>Applicant</i>	<b>ALFAGOMMA HYDRAULIC SPA</b> VIA E. MATTEI 6 64020 Castelnuovo Vomano (TE) ITALY
<i>Testing standards</i>	<b>EN ISO 15540 (2001), EN ISO 15541 (2001)</b>
<i>Reference standards</i>	<b>Regulation II-2/4.2.2.5.1 of SOLAS 74 Convention, as amended</b>

*Issued in Genoa on*  
February 1, 2022

*This Certificate is valid until*  
January 29, 2027

*This Certificate consists of this sheet plus an attachment*

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**Marco Dardano**  
*RINA Services S.p.A.*



**ATTACHMENT TO  
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*Manufacturer*

**ALFA GOMMA INDUSTRIAL SPA**

*Place of Manufacturer*

Via Attilio Di Sante  
snc - Nucleo industriale  
64100 S. Atto (TE)  
ITALY

**MATERIALS/COMPONENTS/TECHNICAL DATA**

Non-metallic expansion joints, type AG JOINT AUTO:

**Diameters:** DN32 - DN40 - DN50 - DN65 - DN80 - DN100 - DN125 - DN150 - DN200 - DN250;

**Working pressure:** 6 bar/10bar/16bar;

**Working temperature:** min -10°C, +90°C with peaks to +110°C;

Expansion joints material: Internal NBR (ACN); External NBR (ACN), CR;

Flange: carbon steel or stainless steel

Flame-proof guard (O-A-A-Q-01 Rev. 02)

**REFERENCE DOCUMENTS**

*Constructional drawings and specification:*

*Technical drawings approved with drawings PPVT-34930 and PPVT-37013*

*Risk Analysis filed with drawing PPVT-34931*

*Test Report filed with drawing PPVT-37606*

**TEST CARRIED OUT**

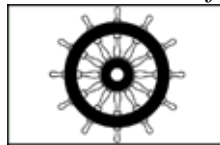
*Test Report filed with drawing PPVT-3760*



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*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 control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body*



**XXXX/YYYY**

**"WHEELMARK FORMAT"**

**XXXX**      *Notified Body number undertaking surveillance module*  
**YYYY**      *The year in which the mark is affixed*

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***General conditions for the approval***

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reaproved prior to it being placed on board vessels to which the amended regulations or standards apply.

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**Marco Dardano**