



**EC TYPE EXAMINATION (MODULE B)  
CERTIFICATE No. MED451225CS**

***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) 2025/1533.

<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 PRO</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, EN ISO 15541</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*  
October 17, 2025

*This Certificate is valid until*  
October 16, 2030

*This Certificate consists of this sheet plus an attachment*

**Rosario Pitruzzo**  
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**RINA Services S.p.A.**



**ATTACHMENT TO  
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*Manufacturer*

**ALFAGOMMA 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 PRO:

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

Working pressure: 16 bar;

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

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

Flange: CuSN6, CuNi, Fe510 and AISI316

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

**REFERENCE DOCUMENTS**

*Constructional drawings and specification:*

PPVT-36660

DISEGNI AGJOINT PRO

**TEST CARRIED OUT**

Fire tests ISO 15540:2016 and ISO 15541:2016, dated 04/09/2020

reports no. 2020CS012115/001-002-003-004

RINA Laboratory - Calata Gadda Genova

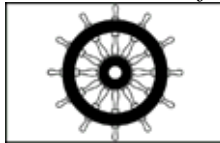
This certificate supersedes certificate no. MED343621CS

This certificate annuls and replaces the certificate No. MED343621CS dated 08/17/2021 due to .



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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 not 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 reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.

**Rosario Pitruzzo**

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**RINA Services S.p.A.**