Certificate No: LR25274729TA
Issue Date: 28/09/2025
Expiry Date: 27/09/2030

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**ALFAGOMMA HYDRAULIC S.p.A.**
Address	Via Enrico Mattei, 6, Castelnuovo Vomano (TE), 64020, Italy
Type	Flexible Hoses
Description	Hydraulic hose with fitting. High pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for high temperature application.
Trade Name	Alfagomma 1SN EVOLUTION HT 150 - Dunlop Hiflex Commander 150 1SN PLUS
Application	Marine-Hydraulic lines
Specified Standard	Lloyd's Register's Rules and Regulations for the Classification of Ships; EN 853 1SN SAE 100 R1AT

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Ratings

Max working pressure:

Size:	DN06	DN10	DN12	DN16	DN20	DN25	DN32	DN38	DN51
MAWP (bar):	225	180	160	130	105	88	63	50	40

The hose assembly covered by this certificate is suitable for use with:
- Hydraulic fluids at temperatures ranging from -40°C to +150°C;
- Water based fluids and compressed air at temperature ranging from -40°C to +110°C (DN≥20);
  Water based fluids and compressed air at temperature ranging from -40°C to +85°C (DN≤16");
- Water at temperatures ranging from 0°C to +70°C.

For use with compressed air or gases the cover shall be pin pricked.

Other Conditions

The hose covered by this certificate shall not be used in systems subject to pressure below atmospheric or vacuum.
Flexible hoses are only to be used in short lengths where it is necessary due to vibrations or flexible mounting of the machinery (Sips Rules Part 5 Ch 12 Sec 7 Par 7.1.1 and 7.1.4)
The hose assemblies shall only be fitted in places where they are always clearly visible and readily accessible (Sips Rules Part 5 Ch 12 Sec 7 Par 7.1.9).

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR25274729DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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