



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	High pressure, fire resistant flexible hose assemblies with an inner tube and cover of synthetic rubber, reinforced with braided high tensile steel wire. Type: as per Appendix
Application	Short joining lengths of flexible hose to accommodate relative movement in marine and offshore systems: Fresh and sea water systems; Fuel oil and lube oil systems in visible and accessible locations; Hydraulic and pneumatic power and control systems; Compressed air systems; CO ₂ systems, between bottles and master valves
Specified Standard	Lloyd's Register's Rules and Regulations for the Classification of Ships; EN 853; EN 856 SAE J517
Ratings	Alfagomma Flexor 1SN/1ATHF (Dunlop Hiflex 122 Greenline Plus) Alfagomma Flexor 1SN/1ATMinetuff (Dunlop Hiflex 122 Greenline Plus Hi-Tuff): Nominal diameter (mm): 4.8 to 50.8 Max. working pressure (bar): 250 to 40 Temperature range (°C): -40 to 100

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Marco Nardo

Engineering Systems Team Leader to Lloyd's Register EMEA
A member of the Lloyd's Register group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Type Approval Certificate

Alfagomma Flexor 2SN/2ATHF(Dunlop Hiflex 222 Greenline Plus)
Alfagomma Flexor 2SN/2ATMinetuff (Dunlop Hiflex 222 Greenline Plus Hi-Tuff):

Nominal diameter (mm):	4.8 to 50.8
Max. working pressure (bar):	420 to 90
Temperature range (°C):	-40 to 100

Dunlop Hiflex 3SPT&3SPG:

Nominal diameter (mm):	9.5 to 31.8
Max. working pressure (bar):	500 to 240
Temperature range (°C):	-40 to 100

Alfagomma Flexopak 2Minetuff (Dunlop Hiflex Super Slimline 241T, 241G Hi-Tuff)

Alfagomma Flexopak 2Supertuff (Dunlop Hiflex Super Slimline 241X Tuflex):

Nominal diameter (mm):	6.3 to 76
Max. working pressure (bar):	420 to 70
Temperature range (°C):	
Petroleum based fluids	-40 to 100
Water based hydraulic fluids	-40 to 70
Water and air	0 to 70

Refer to Alfagomma/Dunlop Hiflex data sheets for actual maximum working pressure for specific hose diameters.

Other Conditions

All other details remain as the previous Certificate No. 07-00065 (E3)-05 to which the extension should be attached



Type Approval Certificate

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.

Previous Version: 07-00065(E3)-05

The Design Appraisal Document LR23294611DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Page	1 of 1
Certificate No:	LR23294611TA
Issue Date:	28 June 2023
Expiry Date:	17 September 2027

APPENDIX to Certificate no. LR23294611TA

DESCRIPTION

High pressure, fire resistant flexible hose assemblies with an inner tube and cover of synthetic rubber, reinforced with braided and spiral high tensile steel wire.

TYPE

Alfagomma Flexor 1SN/1AT HF (Dunlop Hiflex 122 Greenline Plus);
Alfagomma Flexor 1SN/1AT Minetuff (Dunlop Hiflex 122 Greenline Plus Hi-Tuff);
Alfagomma Flexor 2SN/2AT HF (Dunlop Hiflex 222 Greenline Plus);
Alfagomma Flexor 2SN/2AT Minetuff (Dunlop Hiflex 222 Greenline Plus Hi-Tuff);
Alfagomma Flexopak 2 Minetuff (Dunlop Hiflex Super Slimline 241T, 241G Hi-Tuff);
Alfagomma Flexopak 2 Supertuff (Dunlop Hiflex Super Slimline 241X Tuflex);
Dunlop Hiflex 3SPT & 3SPG.