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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 SpA	
Address	Via Enrico Mattei 6, Castelnuovo Vomano	o, 64020, Italy
Туре	Flexible Hoses	
Description	High pressure, fire resistant flexible hose cover of synthetic rubber, reinforced wit wire. Type: as per Appendix	
Application	Short joining lengths of flexible hose to a marine and offshore systems: Fresh and systems in visible and accessible locatior and control systems; Compressed air sys and master valves	sea water systems; Fuel oil and lube oil ns; Hydraulic and pneumatic power
Specified Standard	Lloyd's Register's Rules and Regulations EN 856 SAE J517	for the Classification of Ships; EN 853;
Ratings	Alfagomma Flexor 1SN/1ATHF (Dunlo Alfagomma Flexor 1SN/1ATMinetuff (Tuff): Nominal diameter (mm): Max. working pressure (bar): Temperature range (°C):	
		Marco Nardo

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United Kingdom	A member of the Lloyd's Register group



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

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Nominal diameter (mm):	
Max. working pressure (bar):	
Temperature range (°C):	

4.8 to 50.8 420 to 90 -40 to 100

Alfagomma Flexor 4SH(Dunlop Hiflex 790L, 790G and Powertrack 790):

19.0 to 50.8
420 to 250
-40 to 100

Alfagomma Flexor 13(Dunlop Hiflex 713L, 713G and Powertrack 713):

Nominal diameter (mm):	19.0 to 50.8
Max. working pressure (bar):	350 (380Ф1″)
Temperature range (°C):	-40 to 121

Dunlop Hiflex 3SPT&3SPG:

Nominal diameter (mm): Max. working pressure (bar): Temperature range (°C):

Nominal diameter (mm): Max. working pressure (bar): Temperature range (°C):

9.5 to 31.8 500 to 240 -40 to 100

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

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

Nominal diameter (mm):	
Max. working pressure (bar):	
Temperature range (°C):	

Alfagomma Flexor 4SP(Dunlop Hiflex 730L, 730G Powertrack 730):

Nominal diameter (mm): Max. working pressure (bar): Temperature range (°C): 6 to 25 450 to 320 -40 to 100

6.3 to 50.8 420 to 100 -40 to 100

Refer to Alfagomma/Dunlop Hiflex data sheets for actual maximum working

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pressure for specific hose diameters.

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

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 No. 07/00065(E3) - 03 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

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.
ТҮРЕ	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 Flexor 4SH (Dunlop Hiflex 790L, 790G and Powertrack 790);
	Alfagomma Flexor 13 (Dunlop Hiflex 713L, 713G and Powertrack 713);
	Alfagomma Flexor 4SP (Dunlop Hiflex 730L, 730G and powertrack 730)
	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;