



TYPE APPROVAL CERTIFICATE
No. MAC030813CS/003

This is to certify that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	Non metallic flexible hoses
<i>Type</i>	FLEXOR 4SP; DUNLOP HIFLEX 730L / 730G / 730 SPECIAL
<i>Applicant</i>	ALFAGOMMA HYDRAULIC SPA VIA ENRICO MATTEI 6 64020 CASTELNUOVO VOMANO (TE) ITALY
<i>Manufacturer</i>	ALFAGOMMA HYDRAULIC SPA
<i>Place of manufacture</i>	VIA ENRICO MATTEI 6 64020 CASTELNUOVO VOMANO (TE) ITALY
<i>Reference standards</i>	Part C, Chapter 1, Section 10 of RINA Rules

Issued in **Genova** on **May 27, 2013**. This Certificate is valid until ~~May 26, 2018~~

RINA
Francesco Sciacca

This certificate consists of this page and 1 enclosure



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FLEXOR 4SP
DUNLOP HIFLEX 730L / 730G / 730 SPECIAL

Reference documents

Alfagomma catalogue 2011-2012

Alfagomma data sheet edition 9 dated 13/12/1999

Hose Fitting Combination dated 26/07/2000 and 24/05/2013

Hose fitting combination:

DN			Ferrule			Insert	
mm	inch	dash	Carbon steel		Stainless steel	Carb. steel	Stainl. steel
			AG branding	DH branding	AG branding	AG branding	AG branding
6	1/4	4	H1100204-04	D440000-04	H3100204-04	H12-04	H32-04
10	3/8	6	H1100204-06	D440000-06	H3100204-06	H12-06	H32-06
12	1/2	8	H1100204-08	D440000-08	H3100204-08	H12-08	H32-08
16	5/8	10	H1100204-10	D440000-10	H3100204-10	H12-10	H32-10
19	3/4	12	H1100204-12	D440000-12	H3100204-12	H12-12	H32-12
25	1	16	H1100204-16	D330000-16	H3100204-16	H12-16	H32-16

Applicable specifications

Alfagomma type designation:
4SP acc. EN 856

Dunlop Hiflex type designation:
730L, 730G, 730 SPECIAL acc. 4SP EN 856

Materials/Components

- Inner tube: oil resistant synthetic chloroprene rubber
- Reinforcement: four layers of high tensile steel wrapped in alternating directions
- Cover: chloroprene rubber, weather, oil and abrasion resistant
- Couplings: Carbon steel (9SMnPb28 UNI 4838) or
Stainless steel (XCrNi1810 UNI 6901)



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Technical characteristics

Temperatures range: -40 °C / +100 °C

Maximum working pressure according to the following table:

DN			Max. Working Pressure
mm	inch	dash	bar
6	1/4	4	450
10	3/8	6	445
12	1/2	8	415
16	5/8	10	350
19	3/4	12	350
25	1	16	280

Places of manufacture:

Hoses:

ALFAGOMMA HYDRAULICS SPA - Via E. Mattei, 6 - 64020 Castelnuovo Vomano (TE)

Manufacturing plants:

64020 Castelnuovo Vomano (TE) - Via E. Mattei, 6

87050 Figline V. (CS) - Area Industriale Piano Lago

Fittings:

ALFATECHNOLOGY SRL - Via Torri Bianche, 1 - 20059 Vimercate (MI)

Manufacturing plants:

20040 Bellusco (MI) - Via dell'Industria, 12

87050 Mangone (CS) - Area Industriale Piano Lago

Fields of application

Hydraulic systems with hydraulic fluid having a flash point higher than 150 °C (closed cup test)

Pneumatic systems

Compressed air systems

Fresh water systems

Sanitary systems



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Remarks

The installation on board is to be carried out by qualified personnel in accordance with the manufacturer's instructions.

The flexible hoses are to be installed in order to satisfy the requirements of para. 5.9.3 of Part C, Chapter 1, Section 10 of RINA Rules.

Hoses assemblies with Carbon steel couplings are not to be used at temperatures below -10°C , unless the material is normalized.

The acceptance of the a.m. products on board ship classed with RINA is subject to the satisfactory outcome of testing as per RINA Rules.

The product (hose and fittings) is to be marked, for traceability, with the following data: nominal diameter, design conditions, Manufacturer's name or trademark, designation type reference.

This certificate cancels and replaces the previous one No. MAC014207CS/003 dated 30 November 2007.

Genova May 27, 2013

