



ALFAGOMMA

FOOD



// HOSE & FITTINGS FOR FOOD APPLICATIONS

Alfagomma offers a comprehensive range of high-quality **hoses and fittings**, engineered to meet the stringent requirements of the **food industry**.

Our solutions are ideal for transferring a wide variety of **liquid** and **bulk food products** across multiple applications.

KEY APPLICATIONS

- ▲ **Food Processing Plants**
- ▲ **Dairy Product Handling and Milk Collection**
- ▲ **Breweries and Wineries**
- ▲ **Cleaning Operations in Food Environments**

SUITABLE FOR HANDLING

- ▲ **Milk**
- ▲ **Liquid Non-fatty Foods**
- ▲ **Alcoholic Beverages**
- ▲ **Fatty Foods**
- ▲ **Bulk Foods**

ENGINEERED FOR PERFORMANCE

Alfagomma hoses are manufactured using various tube compounds and constructions to ensure:

- ▲ **Optimal chemical resistance** based on the type of food conveyed
- ▲ **Tailored performance** for each specific application
- ▲ **Maximum durability, hygiene, and regulatory compliance** in demanding food environments

FITTINGS AND HOSE ASSEMBLY SOLUTIONS

Alfagomma supplies a wide range of industrial fittings with suitable ferrules, clamps and accessories to guarantee quality, reliability and optimal performance with Alfagomma hoses:

- ▲ **AISI 316 stainless steel** material for full compatibility with the fluids transferred.
- ▲ Broad assortment of **connection styles** to match customer requirements across different applications and countries.
- ▲ Assembled on industrial hoses using crimped or clamped solutions for an **integrated tested system** that meet the specific technical requirements of food applications.

// HOSE IDENTIFICATION TABLE

HOSE	TECHNICAL FEATURES						FDA Title 21	
	Tube	Hose structure	WP	Max temp.	Bend radius	ID range		

LIQUID FOOD

 // 49000	PVC	Tubing		+60 °C (+14 °F)	NA	3-25 mm (1/8"-1")		
 // 49200	PVC	Delivery	max 20 bar * (300 psi)	+60 °C (+14 °F)	NA	6-51 mm (1/4"-2")		
 // 4660L	PVC	S&D	max 8 bar * (120 psi)	+60 °C (+14 °F)	4,5 x ID	20-152 mm (13/16"-6")		
 // 4680H	PVC	S&D	max 7 bar * (100 psi)	+60 °C (+14 °F)	5 x ID	25-120 mm (1"-4 3/4")		
 // 47200	PVC	S&D Steel helix	max 15 bar * (225 psi)	+60 °C (+14 °F)	4 x ID	10-152 mm (3/8"-6")		
 // 452LH	NR	Delivery	10 bar (150 psi)	+80 °C (+176 °F)	NA	13-76 mm (1/2"-3")		
 // 402LH	NR	S&D	10 bar (150 psi)	+80 °C (+176 °F)	3 x ID	25-102 mm (1"-4")		
 // 410LL Crush resistant	CIIR	S&D PET helix	16 bar (240 psi)	+108 °C (226 °F)	4 x ID	25-76 mm (1"-3")		 Class IV
 // 412LE	NR	S&D	10 bar (150 psi)	+80 °C (+176 °F)	2 x ID	25-102 mm (1"-4")		
 // 418LE Crush resistant	NR	S&D PET helix	10 bar (150 psi)	+80 °C (+176 °F)	3 x ID	51-76 mm (2"-3")		
 // 455LE	NBR	Delivery	10 bar (150 psi)	+100 °C (+212 °F)	NA	13-51 mm (1/2"-1")		 Class II
 // 400LE EVOLUTION	NBR	S&D Extruded tube	10 bar (150 psi)	+120 °C (+248 °F)	2 x ID	25-102 mm (1"-4")		 Class II
 // 405LE	NBR	S&D	10 bar (150 psi)	+100 °C (+212 °F)	3 x ID	19-152 mm (3/4"-6")		 Class II
 // 407LE	NBR	S&D	16 bar (240 psi)	+100 °C (+212 °F)	4 x ID	38-76 mm (1 1/2"-3")		 Class II
 // 417LE Crush resistant	NBR	S&D PET helix	16 bar (240 psi)	+100 °C (+212 °F)	4 x ID	38-76 mm (1 1/2"-3")		 Class II

* WP varies by hose ID

NORMS				ALCOHOLIC BEVERAGES				DAIRY & MILK	FOOD PROCESSING PLANTS				CLEANING
 EC 1935/2004 EC 2023/2006	 EU 10/2011	ITALY D.M. 21/03/73 	FRANCE 05/08/2020 CAT. D 					Processing and transport	Acid food	Liquid food	Fat food	Bulk food	Food Environm.

	 A+B+C+D1			≤ 20%						●			
	 A+B+C+D1			≤ 20%						●			
	 A+B+C+D1			≤ 20%						●			
	 A+B+C+D1			≤ 20%						●			
					≤ 50%					●			
					≤ 50%					●			
							≤ 95%		●	●			
					≤ 50%			●		●			
					≤ 50%			●		●			
						≤ 75%			●	●	●		
						≤ 75%		●	●	●	●		
						≤ 75%			●	●	●		
						≤ 75%			●	●	●		
						≤ 75%			●	●	●		

HOSE	TECHNICAL FEATURES							
	Tube	Hose structure	WP	Max temp.	Bend radius	ID range	FDA Title 21	

BULK FOOD

 // 720LA	NR	S&D	10 bar (150 psi)	+80 °C (+176 °F)	3 x ID	76-102 mm (3"-4")	FDA	
 // 760LA	NR	Delivery	5 bar (75 psi)	+80 °C (+176 °F)	NA	75-110 mm (3"- 4 5/16")	FDA	

CLEANING

 // 395BT	PVC	Delivery	40 bar (600 psi)	+70 °C (158 °F)	NA	12 mm (1/2")		
 // 350LE	EPDM	Delivery	Water 15 bar (225 psi) Steam 6 bar (90 psi)	Water +120 °C (248 °F) Steam +165 °C (+330 °F)	NA	13-51 mm (1/2"-2")	FDA	
 // 450LE EVOLUTION	NBR	Delivery	Water 15 bar (225 psi) Steam 6 bar (90 psi)	Water +120 °C (248 °F) Steam +165 °C (+330 °F)	NA	13-25 mm (1/2"-1")	FDA	

NORMS				ALCOHOLIC BEVERAGES				DAIRY & MILK	FOOD PROCESSING PLANTS				CLEANING
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	 A+B+C+D1												
													
													

// HOSE CLEANING GUIDELINES

PVC FOOD HOSE

It is recommended to clean PVC hoses using a 5% sodium hydroxide solution at 23 °C for 15 minutes before the first use and after each subsequent use.

RUBBER FOOD HOSE

Alfagomma cleaning instructions are intended as general guidelines. They are based on laboratory tests and may not fully reflect actual operating conditions.

Cleaning frequency, method, and duration can significantly affect hose performance and lifespan.

General Recommendations

- Inspect hoses regularly for signs of physical or mechanical damage.
- Do not use high-pressure cleaning systems.
- Alfagomma food hoses are designed for product transfer only and are not suitable for product stagnation.
- Store hoses away from direct sunlight and heat sources to preserve performance and extend service life.

Before First Use

Perform the following initial cleaning procedure:

1. Fill the hose with drinking water at 80 °C (176 °F).
2. Let the water sit in the hose for 2 hours.
3. Proceed with one of the approved cleaning methods listed in the following table.
4. Rinse with drinking water at 80 °C for 10 minutes.

For use of alternative cleaning media, please consult Alfagomma before proceeding.

After Each Use

1. Clean the hose using one of the approved methods listed in the following table.
2. Rinse with drinking water at 80 °C for 10 minutes.

Approved Cleaning Methods

Hose	Media	Max concentration	Max temperature	Max exposure time
452LH 402LH 412LE 418LE 410LL 720LA 760LA	Hot Water	-	80 °C	30 min
	Steam	-	110 °C	30 min
	Sodium Hydroxide	2,0%	40 °C	15 min
		5,0%	23 °C	15 min
	Potassium Hydroxide	2,0%	40 °C	15 min
		5,0%	23 °C	15 min
	Nitric Acid	0,1%	23 °C	10 min
	Peracetic Acid	1,0%	23 °C	15 min
455LE 400LE EVOLUTION 405LE 407LE 417LE 450LE EVOLUTION	Hot Water	-	80 °C	30 min
	Steam	-	130 °C	30 min
	Sodium Hydroxide	2,0%	80 °C	15 min
		5,0%	40 °C	15 min
	Potassium Hydroxide	2,0%	80 °C	15 min
		5,0%	40 °C	15 min
	Nitric Acid	0,1%	23 °C	10min
	Peracetic Acid	1,5%	23 °C	15 min
350LE	Hot Water	-	80 °C	30 min
	Steam	-	130 °C	30 min
	Sodium Hydroxide	2,0%	80 °C	15 min
		5,0%	40 °C	15 min
	Potassium Hydroxide	2,0%	80 °C	15 min
		5,0%	40 °C	15 min
	Nitric Acid	0,1%	80 °C	10 min
		1,0%	23 °C	15 min
	Peracetic Acid	1,5%	23 °C	15 min

// HOSE COMPLIANCE WITH FOOD REGULATIONS

Alfagomma **rubber and PVC food hoses** are specially designed to **comply with the relevant European and American regulations and legislation** related to materials intended for contact with food, including:

- EC 1935/2004
- EC 2023/2006 (GMP)
- EU 10/2011
- EU 3190/2024
- Italian Ministerial Decree of 21/03/1973
- French Arrêté of 05 August 2020
- FDA – Title 21
- 3-A Sanitary Standard 18-03

In addition, the entire food hose range conforms to **EU 2011/65 (ROHS)** and **EC 1907/2006 (REACH)**.

Phthalates and Bisphenols are not intentionally used
in either the materials or the manufacturing process.

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All hoses in the range are marked with the “**glass and fork**” symbol  confirming their suitability for food contact.



// FITTINGS & HOSE ASSEMBLIES

A wide range of **specific AISI 316 stainless steel hygienic couplings** and **industrial fittings** are available to provide fit-for-purpose and fast solutions tailored to customer requirements:

- | | |
|--|-------------------------------------|
| ▲ DIN 11851 | ▲ Storz |
| ▲ Triclamp ISO/DIN | ▲ Threaded couplings |
| ▲ Macon | ▲ Safety clamp (EN 14 420-3) |
| ▲ Cam & Groove | ▲ Ferrules |
| ▲ Symmetric Guillemin NF E 29.572 | ▲ Clamps and Band-it system |

Alfagomma offers **tested hose assembly systems with appropriate and quality fittings** for the different types of Alfagomma hoses for liquid, bulk food products and cleaning application.

- Fittings can be crimped or clamped onto the hose to meet the specific technical requirements of market segments and applications.
- Alfagomma assembly centers guarantee complete control of the quality and reliability and ensuring the safety of the hose assembly during all operations.
- Suitable adapters and accessories are available to complete the system.



// FITTINGS & ACCESSORIES

LIQUID FOOD			
Fittings			
			
SMS 1145	DIN 11851	Triclamp	Macon
			
Symmetric Guillemín NF E 29.572	Storz	Cam & Groove MIL A-A-59326	Cam & Groove EN 14420-7
			
Threaded EN 14420-5 couplings			
Ferrule, Clamps & Accessories			
			
Serrated ferrule	EN 14420 Safety clamps	Smooth ferrule	Rubber protection ring

BULK FOOD**Fittings**

			
SMS 1145	DIN 11851	Triclamp	Symmetric Guillemin NF E 29.572
			
Storz	Cam & Groove MIL A-A-59326	Cam & Groove EN 14420-7	

Ferrule, Clamps & Accessories

		
Serrated ferrule	EN 14420 Safety clamps	Clamps (Superclamp / P-W clamp / Worm gear clamp)

CLEANING

Fittings	Ferrule, Clamps & Accessories			
				
Hydraulic fittings	Hydraulic ferrule	Washing gun	Spray cleaning nozzle	Rubber handle protection

// NOTES

Handwriting practice lines consisting of 20 horizontal dotted lines.

THE ALFAGOMMA GROUP

ALFAGOMMA

ARGENTINA – Buenos Aires
Moreno Store Center
Belisario Roldán 2616 - CP. 1744
La Reja - Bs. As.
+54 (11) 5365-6062/6063

AUSTRALIA – Sydney
50 Honeycomb Drive
Eastern Creek
Sydney, NSW 2766
+61 (2) 98 53 09 00
sydney@alfagomma.com.au

BELGIUM & NETHERLANDS – Benelux
Koeweideblock 4/D3
1785 Merchtem
+32 (0)52 509 747
info.benelux@alfagomma.com

BRAZIL – Guaranésia
Rua Felice Gennasio 401
Distrito Indl. Dr. Firmino Rocha de Freitas
37810-000 - Guaranésia, MG - Brasil
+55 (35) 35 55 0408
contato@alfagomma.com.br

CANADA – Montreal
6550 Abrams
St. Laurent, Montreal
Quebec H4S 1Y2
+1 (514) 33 35 577
info@alfagomma.ca

CHINA – Ningbo
No. 1 Cidong South Avenue
Coastal Economic Development Zone
Cixi, Zhejiang, China 315311
+86 (574) 88 15 72 88
alfagomma.china@alfagomma.com.cn

FRANCE – Villepinte
Le Sisley – Parc d'activité Paris Nord 2
23 Allée des Impressionnistes
93420 Villepinte
+33 (1) 48172121
agfrance.info@alfagomma.com

GERMANY – Herne
Friedrich der Grosse 10
44628 Herne
+49 (2323) 14 730
info.germany@alfagomma.com

GREECE – Athens
85 Kifissou Avenue
12241 Aigaleo, Athens
+30 (210) 41 19 909
info.hellas@alfagomma.com

INDONESIA – Tigaraksa
JL. Raya Pemda Tigaraksa km. 4
No 34, Matagara
Tigaraksa, Tangerang 15720
+62 (21) 59 96 301
jakarta@alfagomma.co.id

ITALY – Vimercate
Via Torri Bianche 1
20871 Vimercate (MB)
+39 (039) 60 161
info@alfagomma.com

MALAYSIA – Pasir Gudang
Plo 405, Jalan Perak 4
81707 Pasir Gudang
Negeri Johor Darul Takzim
+60 (7) 25 72 000
alfagomma@alfagomma.com.my

MEXICO – Torreón
Av. Industria de la transformacion
Parque Pymes 585
27400 Torreón, Coahuila
+52 8713125026
alfagomma.mexico@alfagomma.com

SINGAPORE
14 Tuas Ave 11
Singapore 639080
+65 6360 9000
alfagomma@alfagomma.com.sg

SOUTH AFRICA – Johannesburg
17 Quark Crescent Linbro Business Park
Sandton 2065
+27 (11) 20 10 900
alfagomma@alfagomma.co.za

SOUTH KOREA – Hwasung
15 Julteo Gil
Yangkam-Myun, Hwasung-Si
Kyungki-Do 18630
+82 (31) 35 28 671
alfagomma@alfagomma.co.kr

THAILAND – Bangkok
60/21 Moo.4 King Kaew Road
Racha Thewa SubDistrict, Bang Phli District
Samut Prakan Province, 10540
+66 (0) 2 136 2388
sales@alfagomma.co.th

UNITED KINGDOM – Haydock
43 Wilcock Road
Old Boston Trading Estate Haydock
St. Helens WA11 9TG
+44 (1942) 40 76 80
haydock.sales@alfagomma.com

UNITED STATES OF AMERICA – Burlington
3520 West Avenue
IA 52601 Burlington
+1 (319) 75 89 224
info@alfagomma.us

DUNLOPHIFLEX

DENMARK – KOLDING
Kokholm 5
6000 Kolding
+45 (43) 25 40 00
kundeservice@dunlophiflex.dk

ESTONIA – Tallin
Läike tee 32/1 - Peetri alevik,
Rae vald - 75312 Harjumaa (Tallinn)
Tel: +372 (0) 605 4900
tallinn@dunlophiflex.ee

FINLAND – Pirkkala
Jasperintie 320
33960 Pirkkala
+358 (207) 625 700
info@dunlophiflex.fi

NETHERLANDS – Deventer
Hunneparkade 86
7418 BT Deventer
+31 (570) 66 05 70
info@dunlophiflex.nl

NORWAY – Kjeller
Jogstadveien 39
Pb. 7, 2027 Kjeller
2007 Kjeller
+47 (23) 00 47 00
sales@dunlophiflex.no

SWEDEN – Halmstad
Kistinge Industriområde
Seldonsvagen 2
30180 Halmstad
+46 (104) 14 44 04
halmstad@dunlophiflex.se

ARGUS

GERMANY – Ettlingen
Pforzheimer Str. 126
76275 Ettlingen
+49 (7243) 50 550
info@argus-fluidtechnik.de

UNITED KINGDOM – Salisbury
Telford Road
Salisbury, Wiltshire SP2 7PH
+44 (1722) 42 05 90
sales@hiflex-europe.com

KIOWA

UNITED KINGDOM – Sleaford
Kiowa Ltd, The Reservation, East Road
Sleaford, Lincolnshire, NG34 7BY
+44 (0) 1529 416200
sales@kiowa.co.uk



**HEADQUARTER
ALFAGOMMA SPA**
Via Torri Bianche 1
20871 Vimercate (MB) Italy
marketing@alfagomma.com
www.alfagomma.com