

» RUBBER HOSE FOR FOOD INDUSTRIES



**PREMIER
HOSE
TECHNOLOGIES**



ivg colbachini spa

||||| ivg GROUP |||||
INDUSTRIAL RUBBER HOSE

WWW.IVGSPA.IT



IVG COLBACHINI

» IVG's flexibility is not just a corporate philosophy, but it is a real passion: **a passion for flexibility.**

We have been producing rubber hose for industrial applications since 1966. The foundation of our success is our flexibility: of our products, processes, and people. This characteristic helps us to always be one step ahead, together with our customers, in a fast-changing world.

IVG products are designed to fulfill the needs of various industries and our range of hoses dedicated to the food industry is one of the most complete found on the market. It includes products designed for specific applications and fluids in order to guarantee excellent performance.



» APPLICATIONS IN THE FOOD INDUSTRY



- » Foodstuff collection from tanker trucks.
- » Food transfer in every phase of the process.
- » Hot air flow in the tanks.
- » Cleaning operations.

Available also:

- onshore and offshore hose (also self floating) for the transfer of drinking water and food,
- hose structure with cables to transmit electrical impulses,
- on request hose with antimicrobial and antifungal cover.



- » **Stability in use**
- » **More reliable than hoses made of other materials**
- » **Excellent resistance to sanitation operations and wide range of temperature**
- » **No contamination in the fluid conveyed**
- » **Very flexible**

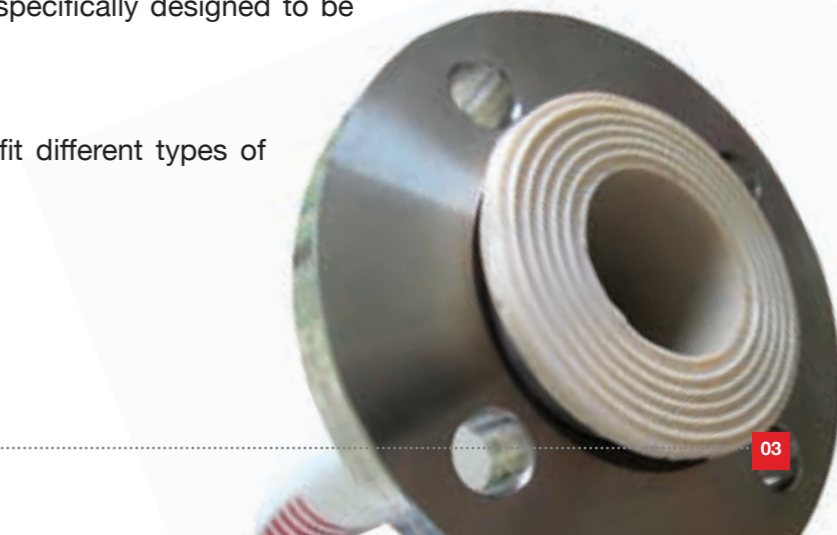
CHARACTERISTICS

IVG food rubber hoses, produced on rigid mandrel:

- can reach continuous lengths up to **60 meters (200 ft)**;
- are produced on **specific and dedicated mandrels** (also up to 6");
- meet many **international standards** required by the food industry;
- are provided with **technical data sheets, recommendations for use and maintenance, certificates of conformity**;
- their components are **certified by external laboratories**.

Hoses can be fitted with any type of coupling applied by:

- swaging or banding that are able to guarantee the full flow passage thanks to a particular system to insert the nipple;
- clamps that meet international standards, or specifically designed to be fitted on our hoses (EasyShell);
- vulcanization;
- food quality rubber beaded ends suitable to fit different types of fittings and flanges.



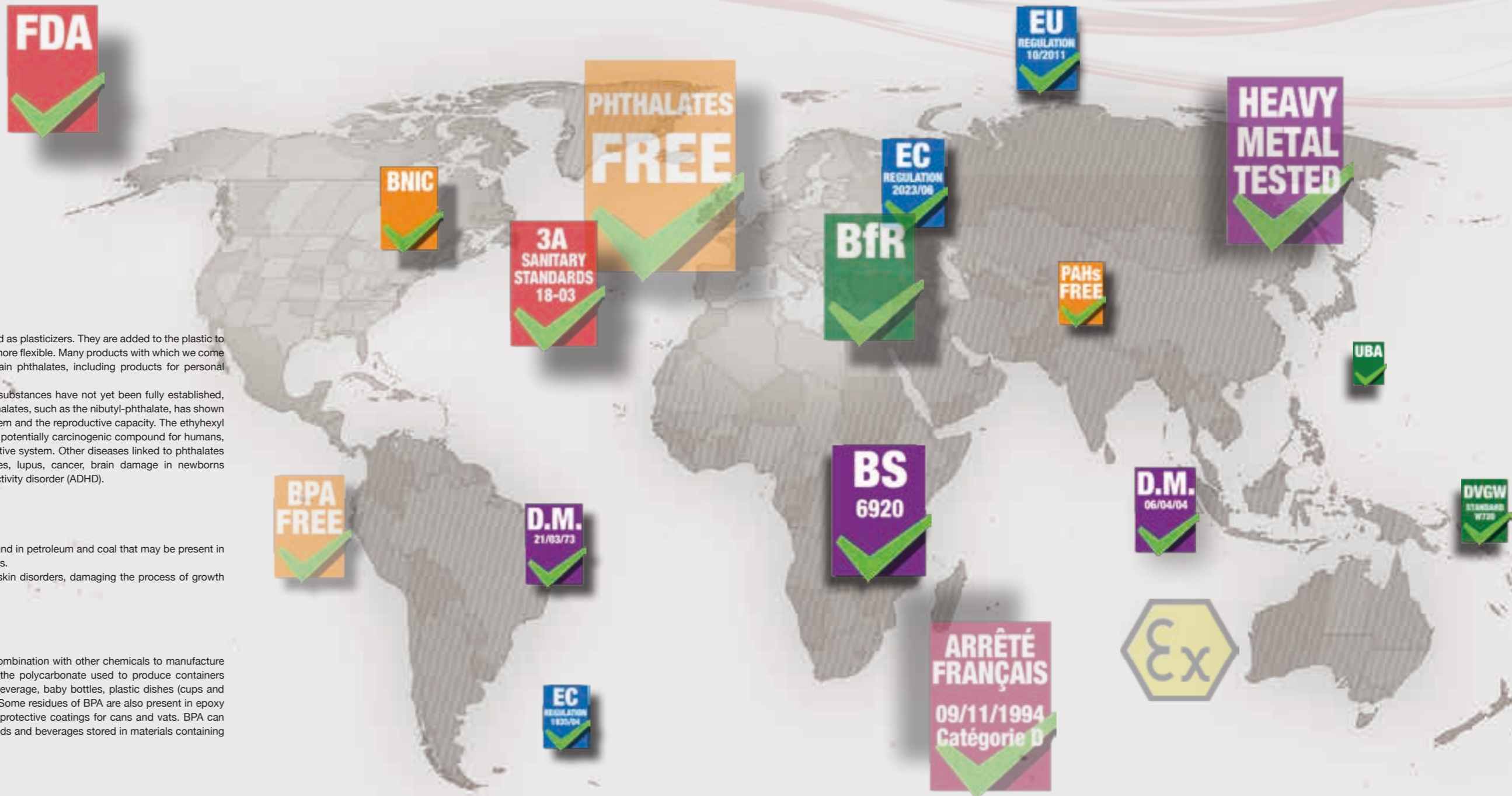
The design and production of IVG rubber hoses intended for contact with foodstuffs are inspired by the respect of the complex international regulatory framework for FCMs (Food Contact Materials).

The IVG hoses meet main EU regulations, along with the standards in force in particular in some member states and the USA.

Our guiding principles are the health of end consumers along with the guarantee, for food companies, that our hoses do not alter the quality of their products and can be integrated into processes subjected to increasingly stringent mandatory or voluntary regulations (ISO 22000, HACCP, BRC and IFS, GFSI, UNI 15593).



» REGULATORY FRAMEWORK



i PHTHALATES

They are a group of chemicals used as plasticizers. They are added to the plastic to make it last longer and to make it more flexible. Many products with which we come into contact every day may contain phthalates, including products for personal care, medical devices or furniture.

The effects of exposure to these substances have not yet been fully established, however, exposure to specific phthalates, such as the n-butyl-phthalate, has shown to influence the development system and the reproductive capacity. The ethylhexyl phthalate has been recognized as potentially carcinogenic compound for humans, in particular for the male reproductive system. Other diseases linked to phthalates are: diabetes, respiratory diseases, lupus, cancer, brain damage in newborns syndrome attention deficit hyperactivity disorder (ADHD).

i PAHS

They are chemical compounds found in petroleum and coal that may be present in rubber, plastics or their compounds. PAH can be carcinogenic, cause skin disorders, damaging the process of growth and reproduction.

i BISPHENOL A

It is a substance mainly used in combination with other chemicals to manufacture plastics and resins. It is used in the polycarbonate used to produce containers for food use such as bottles for beverage, baby bottles, plastic dishes (cups and plates) and containers in general. Some residues of BPA are also present in epoxy resins used to produce films and protective coatings for cans and vats. BPA can migrate in small quantities into foods and beverages stored in materials containing the substance.

AVAILABLE STRUCTURE			TEMPERATURE W.P. - B.P. SIZES	FLUID CONVEYED									
softwall	hardwall	hardwall corrugated		alcohols	wine	beer	milk and dairy products	food vegetable oils	canned foods	fruit juices	powders and granules	various	
■	■	■	-30°C +100°C -22°F +212°F 10 bar - 30 bar 150 psi - 450 psi 25 mm - 100 mm 1 - 4"	■	■	■	■	■	■	■	■	■	
■	■	■	-40°C +120°C -40°F +248°F 10 bar - 30 bar 150 psi - 450 psi 25 mm - 100 mm 1 - 4"	■	■	■						■	
■	■	■	-40°C +120°C -40°F +248°F 10 bar - 30 bar 150 psi - 450 psi 19 mm - 102 mm 3/4-4"	■	■	■			■	■		■	
		■	-40°C +120°C -40°F +248°F 10 bar - 30 bar 150 psi - 450 psi 51 mm-100 mm 2 - 4"		■	■	■					■	
		■	-40°C +120°C -40°F +248°F 10 bar - 30 bar 150 psi - 450 psi 51 mm-100 mm 2 - 4"	■	■	■						■	

MILLENNIUM



- **TOTAL FOOD, perfect for all food products**
- suitable to convey alcohol up to 96°
- hardwall corrugated structure is compatible with EASY SHELL SYSTEM

Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). BPA free. Heavy metal tested. FDA tit.21 art.177.2600 aqueous and fatty foods. 3-A Sanitary Standards n°18-03 class II. BFR XXI Cat.2 foods. D.M. 21/03/73 aqueous, fatty foods and alcohol up to 96°.

VINOFLEX



- lightweight and flexible hose
- suitable to convey vintage wines and alcohols at 96° and in general all non fatty liquid foods
- **designed to be used in wine cellars, the thermoplastic cover has a low coefficient of friction**
- hardwall corrugated structure is compatible with EASY SHELL SYSTEM

Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Bisphenol A free. Heavy metal tested. FDA tit.21 art.177.2600 aqueous foods. BFR XXI Cat.2 foods. D.M. 21/03/73 aqueous and alcohol up to 96°.

SCOTLAND



- heavy duty hose, premium quality
- suitable to convey beer, high quality beverages both alcoholic up to 96° and non alcoholic and all non fatty liquid foods
- **perfect during processing and transfer of the product in breweries and distilleries**
- available also with PET anti-crush helix wire

Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Bisphenol A free. Heavy metal tested. FDA tit.21 art.177.2600 aqueous foods. BFR XXI Cat.2 foods. D.M. 21/03/73 aqueous and alcohol up to 96°.

TUSCANY



- very flexible hose, **no kinking**
- suitable to convey non fatty foods, in particular vintage wines and alcohols at 96°
- hardwall hose with **external plastic helix wire on the cover that reduces friction against abrasive and rough surfaces**
- it can be used for suction operations
- suitable to be used both indoors and outdoors
- shiny finish
- it is not crush resistant
- available with black cover and a robust structure
- available with ends suitable to fit EasyShell clamps

Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Bisphenol A free. Heavy metal tested. FDA tit.21 art.177.2600 aqueous foods. BFR XXI Cat.2 foods. D.M. 21/03/73 aqueous and alcohol up to 96°.

EASY TO HANDLE

PIEDMONT



- very flexible hose, **no kinking**
- hose suitable for the delivery of non fatty foods, in particular vintage wines and alcohols at 96°
- **the external plastic helix wire on the cover reduces friction against abrasive and rough surfaces**
- suitable to be used both indoors and outdoors
- **suitable for medium vacuum and crush-resistant**
- shiny finish

Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Bisphenol A free. Heavy metal tested. FDA tit.21 art.177.2600 aqueous foods. BFR XXI Cat.2 foods. D.M. 21/03/73 aqueous and alcohol up to 96°.

EASY TO HANDLE

■ with corrugated cover

AVAILABLE STRUCTURE			TEMPERATURE W.P. - B.P. SIZES	FLUID CONVEYED									
softwall	hardwall	hardwall corrugated		alcohols	wine	beer	milk and dairy products	food vegetable oils	canned foods	fruit juices	powders and granules	various	
			 -30°C +80°C -22°F +176°F 10 bar - 30 bar 150 psi - 450 psi 25 mm-102 mm 1-4"										
			 -35°C +70°C -31°F +158°F 10 bar - 30 bar 150 psi - 450 psi 13 mm - 102 mm 1/2 - 4"										
			 -35°C +70°C -31°F +158°F 10 bar - 30 bar 150 psi - 450 psi 25 mm-102 mm 1-4"										
			 -30°C +60°C -22°F +140°F 20 bar - 60 bar 300 psi - 900 psi 10 mm-25 mm 25/64 - 1"										

SHETLAND



- high quality hose
- suitable to convey **fine spirits up to 96°**
- the special synthetic plastomer lining fully guarantees no releases in the medium

Reg. EC 1935/04 and EC 2023/06. Reg. EU 10/2011 for alcoholic foods up to 96%. Phthalates free. PAHs free (acc. to ZEK 01.4- 08 Cat. 1). Bisphenol A free. Tested and homologated by BNIC. FDA title 21 item 177.1520 foods. BfR III.

MERLOT



- hose suitable for water, wine, juice, soft drinks and other foodstuffs, not recommended for oily or fatty liquids
- **with NR tube**

Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Bisphenol A free. FDA tit.21 art. 177.2600 aqueous and fatty foods. BfR XXI cat.2 foods. D.M. 21/03/73 aqueous foods and alcohols at 72°.

PARRY



- hose suitable for water, wine, juice, soft drinks and other foodstuffs, not recommended for oily or fatty liquids
- **with NR tube**

Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Bisphenol A free. FDA tit.21 art. 177.2600 aqueous and fatty foods. BfR XXI cat.2 foods. D.M. 21/03/73 aqueous foods and alcohols at 72°.

ACQUABLU®

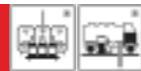


- potable water hose
- designed to work in all fields of the the food industry where it is necessary to convey potable water (domestic use, camping)
- thanks to the special composition of this hose, **the chemical and organoleptic characteristics of drinking water remain pure and unaltered**

Reg. EC 1935/04 and EC 2023/06. Phthalates free. FDA tit.21 art.177.1520 foods. BfR III. According to UBA and DVGW Standard W270. D.M. n° 174 of 06/04/04. WRAS approved according to BS 6920.

AVAILABLE STRUCTURE			TEMPERATURE W.P. - B.P. SIZES	FLUID CONVEYED									
softwall	hardwall	hardwall corrugated		alcohols	wine	beer	milk and dairy products	food vegetable oils	canned foods	fruit juices	powders and granules	various	
			 -40°C +120°C -40°F +248°F 6 bar - 18 bar 90 psi - 270 psi 19 mm-102 mm 3/4 - 4"				■						
			 -40°C +120°C -40°F +248°F 10 bar - 30 bar 150 psi - 450 psi 19 mm-102 mm 3/4 - 4"	■									■
			 -40°C +120°C -40°F +248°F 10 bar - 30 bar 150 psi - 450 psi 19 mm-102 mm 3/4 - 4"	■		■	■	■	■	■	■	■	■
			 -15°C +90°C +5°F +194°F 10 bar - 30 bar 150 psi - 450 psi 19 mm-102 mm 3/4 - 4"	■					■	■			■
			 -15°C +90°C +5°F +194°F 10 bar - 30 bar 150 psi - 450 psi 19 mm-102 mm 3/4 - 4"	■					■	■			■

FOODFLEX®/IIR



- **lightweight, flexible and easy to handle**
- suitable for milk and dairy products, ideal for collection tanks and connections in the dairy industry

- available also with NR tube or with PET anti crush internal helix wire
- not suitable for connections less than 2mt

Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Bisphenol A free. Heavy metal tested. FDA tit.21 art.177.2600 aqueous foods. BfR XXI Cat.2 foods. D.M. 21/03/73 aqueous and alcohol up to 96°.

MILKSERVICE



- **designed to convey milk and its liquid derivatives**, used mainly in fixed plants
- also suitable to convey hot air up to +140°C in the tank air lines

- available hardwall corrugated structure compatible with EASYSHELL SYSTEM

Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Bisphenol A free. Heavy metal tested. FDA tit.21 art.177.2600 aqueous foods. BfR XXI Cat.2 foods.

ALICANTE



- hose for **many food products** such as milk and dairy products, fruit juice, beer, wine and others alcohols up to 96%, with exception of fatty foods and oils

- suitable for **hot air on the tank truck up to 140°C**
- available hardwall corrugated structure compatible with EASYSHELL SYSTEM

Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Bisphenol A free. Heavy metal tested. FDA tit.21 art.177.2600 aqueous foods. BfR XXI Cat.2 foods. Arrêté français 09/11/1994 catégorie D.

PANAMA



- hose for food products, particularly suitable for **oil and fatty foods**
- light structure

Reg. EC 1935/04 and EC 2023/06. Phthalates free. Bisphenol A free. FDA tit.21 art.177.2600 fatty foods. D.M. 21/03/73 fatty foods.

ACAPULCO

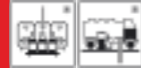


- hose for liquid food products, particularly suitable for **vegetable oils and fatty foods**
- also available with anti crush PET internal helix wire

Reg. EC 1935/04 and EC 2023/06. Phthalates free. Bisphenol A free. FDA tit.21 art.177.2600 fatty foods. D.M. 21/03/73 fatty foods.

AVAILABLE STRUCTURE			TEMPERATURE W.P. - B.P. SIZES	FLUID CONVEYED									
softwall	hardwall	hardwall corrugated		alcohols	wine	beer	milk and dairy products	food vegetable oils	canned foods	fruit juices	powders and granules	various	
■	■	■	-25°C +100°C -13°F +212°F 10 bar - 30 bar 150 psi - 450 psi 25 mm-100 mm 1 - 4"					■				■	
■	■		-30°C +70°C -22°F +158°F 6 bar - 18 bar 90 psi - 270 psi 76 mm-127 mm 3 - 5"									■	
■	■		-30°C +80°C -22°F +176°F 6 bar - 18 bar 90 psi - 270 psi 76 mm-127 mm 3 - 5"									■	
■	■	■	-40°C +100°C -40°F +212°F 16 bar - 64 bar 240 psi - 960 psi 19 mm-102 mm 3/4 - 4"	■	■	■			■	■		■	
	■		-30°C +100°C -22°F +212°F 16 bar - 64 bar 240 psi - 960 psi 13 mm - 100 mm 1/2 - 4"		■	■			■	■		■	

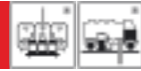
OILMILL



- lightweight flexible hose
- suitable to convey **olive oil, fatty and oily liquid foodstuffs**
- hardwall corrugated structure is compatible with EASYSHELL SYSTEM

Reg. EC 1935/04 and EC 2023/06. Phthalates free. Bisphenol A free. FDA tit.21 art.177.2600 fatty foods. D.M. 21/03/73 fatty foods.

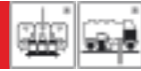
DON/BN



- lightweight flexible hose
- suitable to convey **abrasive products in the food and chemical industries** (fertilizers, granules, dyes, PVC that must not be stained)
- used in tank trucks, rail tankers and storage silos
- not suitable for ATEX environments

Reg. EC 1935/04 and 2023/06. Phthalates free. FDA tit.21 art.177.2600 dry foods. BfR XXI Cat.4.

GORDON



- light and flexible hose
- suitable to convey bulk abrasive products, granules, dyes and PVC
- used in milk powder, sugar and flour plants
- **dissipative hose approved for use in ATEX environments**

Reg. EC 1935/04 and 2023/06. Phthalates free. FDA tit.21 art.177.2600 dry foods. BfR XXI Cat.4.

SUPERTOP/UPE



- hose suitable for handling a **wide range of aggressive chemicals, solvents, alcohols and food**
- normally installed on tank trucks and discharge platforms in chemical, oil and food industries

EN 12115:11. Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). FDA tit.21 item 177.1520 foods. BfR III.

THUNDERFLEX



- hose suitable to convey a wide range of chemicals, food, petroleum products and oils
- with spekked UPE tube
- **conductive hose approved for use in ATEX environments**

EN 12115:11. Reg. EC 1935/04 and EC 2023/06. Reg. EU 10/2011 for alcoholic foods up to 96%. Phthalates free. Bisphenol A free. FDA title 21 item 177.1520 foods. BfR III. Tested acc. to EN 13463-1/EN 60079.

AVAILABLE STRUCTURE	TEMPERATURE W.P. - B.P. SIZES
softwall	

EASYCLEAN



- suitable for hot water washing operations, excellent resistance to high temperatures
- **with an antimicrobial cover particularly resistant to fats**
- recommended for sanitation operations in abattoirs, slaughterhouses, dairies, canneries and in all food industries

Phthalates free. Bisphenol A free. FDA tit.21 art. 177.2600 acqueous and fatty foods. BFR XXI Cat.3. Cover: according to ISO 22196:2011 (Ref.1).

 -20°C +95°C -4°F +203°F
 10 bar - 30 bar 150 psi - 450 psi
 13 mm - 25 mm 1/2-1"

HOTOTAL BLUE FDA



- hot potable water delivery hose
- ideal for **dishwashing machines and in hot water** in processing plants

Tube: phthalates free. FDA item 177.2600 tit. 21 aqueous foods.

 -30°C +110°C -22°F +230°F
 10 bar - 40 bar 150 psi - 600 psi
 5 mm - 19 mm 12/61 - 3/4"

VAPORCLEAN



- hose for **hot water and steam used to wash down** in dairies, slaughterhouses and in the food industry in general
- **IIR rubber**

Phthalates free. FDA tit. 21 item 177.2600 aqueous and fatty foods. BFR XXI Cat.2 foods.

 -30°C +95°C water -22°F +203°F water 10 bar - 30 bar 150 psi - 450 psi
 -30°C +165°C steam -22°F +329°F steam 6 bar - 60 bar 90 psi - 900 psi
 5 mm - 51 mm 12/61 - 2"

FOODLAND®



- hose for **hot water and steam used to wash down** in dairies, slaughterhouses and in the food industry in general
- **EPDM rubber**

 -30°C +95°C water -22°F +203°F water 10 bar - 30 bar 150 psi - 450 psi
 -30°C +165°C steam -22°F +329°F steam 6 bar - 60 bar 90 psi - 900 psi
 13 mm - 51 mm 1/2 - 2"

MICHIGAN



- hot water hose used for washing in the food industry, slaughterhouses, dairies, mills

 -40°C +80°C -40°F +176°F
 10 bar - 30 bar 150 psi - 450 psi
 13 mm - 51 mm 1/2 - 2"

GENERAL ADVICE

- » Keep hoses away from sunlight and heat and store with perforated plugs on both ends.
- » Hoses are not suitable for permanent stagnation of products.

SANITATION

- 1 IVG recommends for the first use a wash cycle with potable water at a maximum temperature of 80°C / 90°C and a hose sanitation before conveying food products.
- 2 Deterision and disinfection of systems and hoses **should be checked at the end of each cycle of use.**
- 3 **Strictly follow the times indicated** for each cleaning cycle.
- 4 **Do not immerse hose assembly in the sanitation fluid** because only the inner tube is suitable for contact with the above mentioned solvents.
- 5 Every cleaning cycle **must be immediately followed by a complete rinse.**

HOSE	Steam	Cleaning with nitric acid 0,5%, peracetic acid 0,5%, phosphoric acid 2%, caustic soda 5%	Cleaning with nitric acid 1%, peracetic acid 1%, phosphoric acid 2%, caustic soda 5%.
Millennium	max 130°C for 30 minutes	max 50°C for 15 minutes	
Vinoflex, Scotland, Tuscany, Piedmont, Foodflex®/IIR	max 130°C for 15 minutes		max 60°C for 15 minutes
Merlot, Parry	max 110°C for max 10 minutes	max 50°C for 10 minutes	
Panama, Acapulco, Oilmill	max 110°C for 15 minutes	max 50°C for 15 minutes	
Shetland	max 130°C for 15 minutes		max 60°C for 15 minutes
Milkservice, Alicante	max 150°C for 30 minutes		max 50°C for 15 minutes
Acquablu®	max 130°C for 15 minutes	max 60°C for 15 minutes	
Don/BN, Gordon	max 110°C for 15 minutes	max 50°C for 10 minutes	
Supertop UPE, Thunderflex	max 130°C for 15 minutes		max 60°C for 15 minutes

EasyShell patented, quick and functional clamp system.

Two light half shells made up of strong plastic material that easily connect to form a safe fitting system for end couplings.

The clamps are designed to ensure a perfect fit with specific IVG Easy corrugated hoses (Millennium, Vinoflex, Oilmill, Milkservice, Alicante).

The half shells Easyshell are a good alternative to the clamps EN 14420 (DIN 2817) and EN 14423 (DIN 2826).

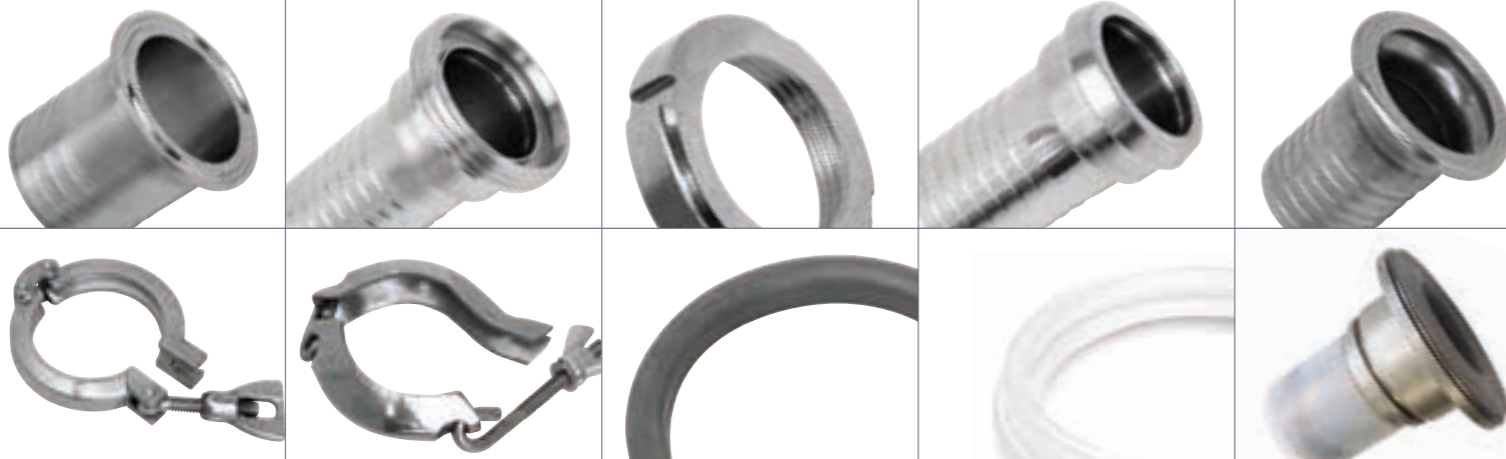
» EasyShell system advantages

- The hoses no longer require soft ends for the application of the couplings.
- The service lengths are assembled by the end user in any location and in any length.
- A solution that is: easy to use, lightweight, resistant, multipurpose, reusable and ecofriendly



FITTINGS
DIVISION

COUPLINGS



IVG Fittings Division can make assemblies fitted with any type of end connection applied by swaging, clamps, collars, etc..

Available couplings:

- DIN 11851
- CLAMP
- SMS
- PFA/FEP LINED FITTINGS
- GAROLLA

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PASSION FOR FLEXIBILITY

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