



# » INDUSTRIAL RUBBER HOSE

CATALOGUE



PREMIER  
HOSE  
TECHNOLOGIES



**ivg colbachini spa**

■■■■■■■■■■ IVG GROUP ■■■■■■■■■■  
INDUSTRIAL RUBBER HOSE

[WWW.IVGSPA.IT](http://WWW.IVGSPA.IT)





- » The passion to produce phthalates free hoses for milk.
- » The experience to test fire resistance of platform hoses.
- » The knowledge to ensure that a train will stop at the right time at -50°C.
- » The patience that accompanies Cognac on its journey to the glass.

## **This and more flows in the IVG rubber hose.**

**The attention for the safety of people and the environment.**

The flow in IVG rubber hoses tells us. About the rigid mandrel technique reaching continuous lengths up to 120 meters. It tells about lengths that connect IVG to more than 100 countries around the world.

And it tells about the length most important to us: 50 years of history.

A time spent connecting points and carrying fluids, in every sector: metallurgy, shipbuilding, food, chemical, oil, rail, mining.



**Our history dates back and continues on today.**

**Hose after hose, fitting after fitting **to the future.****





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Do you want to consult the product data sheets and receive technical updates in real time?

[www.ivgspa.it](http://www.ivgspa.it)



## » TYPES OF HOSE STRUCTURE

### SOFTWALL HOSE (Cord)

Rubber tube, plies of synthetic cord, rubber cover.



### HARDWALL HOSE (LL)

Rubber tube, plies of synthetic cord, helix wire either in steel or nylon, smooth rubber cover.



### STEEL CORD HOSE (CM)

Rubber tube, plies of steel wire cord, rubber cover.



### HARDWALL HOSE: wire reinforced hose, corrugated cover (LO)

Rubber tube, plies of synthetic cord, helix wire either in steel or nylon, corrugated rubber cover.



### HARDWALL HOSE: wire reinforced hose, square corrugated cover (LCL)

Rubber tube, plies of synthetic cord, helix wire either in steel or nylon, square corrugated rubber cover.



### HARDWALL HOSE: wire reinforced, corrugated tube and cover (00)

Rubber corrugated tube, plies of synthetic cord, steel helix wire, corrugated rubber cover.



### LONG LENGTH HOSE (EXT)

Extruded rubber tube, high strength synthetic fabrics, extruded rubber cover.



## » CHARACTERISTICS OF AN IVG MANDREL BUILT RUBBER HOSE

IVG hoses are built on rigid mandrels and designed for low and medium pressure. The dimensional tolerances of IVG hoses are in accordance with the standard 1307:2006.

Hose types	from I.D.		up to I.D.		maximum continuous lengths (*)	
	mm	inch	mm	inch	m	ft
Softwall	5	12/61	152	6	120	400
	153	6-1/32	254	10	60	200
	255	10-3/64	650	26	12	40
Hardwall	13	1/2	102	4	120	400
	103	4-1/16	203	8	60	200
	204	8-1/32	500	20	12	40
Steel cord	13	1/2	80	3-5/32	120	400
	81	3-3/16	152	6	60	200
	153	6-1/32	590	23-1/4	12	40
Hardwall corrugated cover	13	1/2	203	8	60	200
	204	8-1/32	650	26	12	40

\*Not all of the maximum lengths produced can be shipped as a whole length, depending on hose and diameter.

## » FITTING STYLES



IVG Fittings Division is the fittings department working in synergy with IVG's R&D. It can make assemblies fitted with any type of end connection applied by swaging, clamps or collars.

The workshop includes:

- swaging machines from 8 mm (5/16") to 505 mm (20"),
- machines designed to produce hoses and couplings,
- testing machines,
- machines for branding on metal,
- machines to cut hoses,
- machines for packaging,
- a wide range of couplings which can be applied to the hose or sold separately with all the necessary accessories (collars, clamps, etc.). To consult the complete range: <https://www.ivgspa.it/en/couplings.aspx>

## » FITTING STYLES

### SWAGED FITTING

This fitting system consists of a nipple and ferrule swaged to the hose as an integrated unit, providing exceptional holding strength against leaks and blow out. This method overcomes the limitation of clamped, banded or bolted fitting design.



### BUILT-IN FITTING

Hose is built around the nipple; after vulcanization the hose and nipple are an integral unit that will not leak or blow out.



### BUILT-IN FITTING RUBBER PROTECTED FLANGE

Fitting is incorporated into the tube structure. The rubber lining covers the flange, therefore no metal is in contact with the fluid conveyed.



### BEADED END WITH FLANGE

One end of the hose is reinforced in order to place a mobile flange. It provides a flexible connection with only rubber contact. To join the two hoses, flanges are aligned without twisting the hose.



### BAND TYPE FITTING

Consists of a nipple and external bands that are manually tightened to form one piece. This system is suitable for light weight applications and in all those cases where a quick assembly is necessary.



### FITTING WITH BOLTED CLAMPS

Consists of a nipple and external clamps that are fastened to the hose with bolts. This system guarantees good performance of the assembly and makes it possible to re-use the fittings. Volgafra and EasyShell systems are available.



## » END STYLES AVAILABLE

### SOFT END

To facilitate coupling, the helix wire is terminated before the end of the hose and the end is completed with fabric reinforcement to provide adequate strength and wall thickness.



### ENLARGED END

The hose end is enlarged to match the O.D. of the shank of a fitting.



### CAPPED END

Hose end is completely sealed with rubber to protect and seal the fabric reinforcement.



### PROTRUDING COPPER WIRES

One or two copper wires are inserted inside the hose wall and are left protruding at the end. They will then be attached to the metal fittings in order to allow the dissipation of the electrostatic charges.





## MONTANA



W.P. 20 bar (300 psi)	B.P. 60 bar (900 psi)
W.P. 27 bar (405 psi)	B.P. 81 bar (1215 psi)
from 10 mm (25/64") to 102 mm (4")	
from -30°C (-22°F) to +70°C (+158°F)	

Delivery of compressed air with light traces of oil mist - hose for heavy duty applications. Available in two versions: 20 bar (300 psi) and 27 bar (405 psi).

- construction
- shipyard
- mining



## AIR - WATER 20



W.P. 20 bar (300 psi)	B.P. 60 bar (900 psi)
from 6 mm (1/4") to 25 mm (1")	
from -25°C (-13°F) to +80°C (+176°F)	

Delivery of compressed air, non aggressive fluids and water - extruded hose.

- construction
- agriculture
- fire fighting
- mining



## ALASKA



from W.P. 30 bar (450 psi)	B.P. 90 bar (1350 psi)
to W.P. 70 bar (1050 psi)	B.P. 210 bar (3150 psi)
from 13 mm (1/2") to 102 mm (4")	
from -30°C (-22°F) to +70°C (+158°F)	

Delivery of high pressure compressed air - steel wire reinforced hose.

- construction
- mining



## MASTINO



from W.P. 40 bar (600 psi)	B.P. 120 bar (1800 psi)
to W.P. 70 bar (1050 psi)	B.P. 210 bar (3150 psi)
from 25 mm (1") to 102 mm (4")	
from -30°C (-22°F) to +135°C (+275°F)	

Delivery of high pressure compressed air with heavy traces of oil - steel cord hose. Suitable for heavy duty applications.

- construction
- mining



## AIRHELLAS



W.P. 12 bar (180 psi)	B.P. 36 bar (540 psi)
from 10 mm (25/64") to 38 mm (1 1/2")	
from -30°C (-22°F) to +80°C (+176°F)	

Delivery of compressed air - hose with electrically insulating rubber compounds.

- electrolytic metallurgical processes



## FRAS AIR WATER



W.P. 17,5 bar (263 psi)	B.P. 70 bar (1050 psi)
from 13 mm (1/2") to 51 mm (2")	
from -15°C (+5°F) to +70°C (+158°F)	
AS 2660 class B.	

Delivery of compressed air and water - conductive hose, flame resistant.

- mining



## MONTREAL



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
W.P. 20 bar (300 psi)	B.P. 60 bar (900 psi)
from 13 mm (1/2") to 203 mm (8")	
from -35°C (-31°F) to +70°C (+158°F)	

Delivery of water, non-corrosive liquids and compressed air. Available in two versions: 10 bar (150 psi) and 20 bar (300 psi).

- construction
- agriculture
- mining



## AIR - WATER 10



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 5 mm (12/61") to 25 mm (1")	
from -25°C (-13°F) to +80°C (+176°F)	

Delivery of water, non-aggressive fluids and compressed air - extruded hose.

- construction
- agriculture
- fire fighting
- mining



## LUWAS® 30



W.P. 30 bar (450 psi)	B.P. 90 bar (1350 psi)
from 10 mm (25/64") to 50 mm (2")	
from -30°C (-22°F) to +100°C (+212°F)	
Flame retardant cover compound according to ASTM C-542.	

Delivery of compressed air, hot water, water mixed with additives such as fire fighting powders, insecticides, car washing shampoo and cooling water mixed with antifreeze products - polyvalent hose.

- construction
- agriculture
- fire fighting
- mining



## TORONTO



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 19 mm (3/4") to 203 mm (8")	
from -30°C (-22°F) to +70°C (+158°F)	

Suction and delivery of water and non-corrosive fluids.

- tank truck
- construction
- agriculture
- fire fighting
- mining





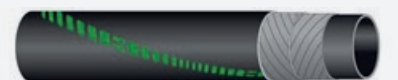
## AMBURGO



W.P. 3 bar (45 psi)	B.P. 9 bar (135 psi)
from 25 mm (1") to 305 mm (12")	
from -30°C (-22°F) to +70°C (+158°F)	

Suction and delivery of water, non corrosive fluids or natural liquid fertilizers - hose with corrugated cover.

- tank truck
- agriculture
- fire fighting



## OSLO



from W.P. 5 bar (75 psi)	B.P. 15 bar (225 psi)
to W.P. 18 bar (270 psi)	B.P. 54 bar (810 psi)
from 19 mm (3/4") to 305 mm (12")	
from -25°C (-13°F) to +70°C (+158°F)	

Delivery of industrial or waste water to submerged pumps and in irrigation systems - lay flat hose. Available in three versions: 5 bar (75 psi), 10 bar (150 psi) and 18 bar (270 psi).

- construction
- agriculture
- fire fighting



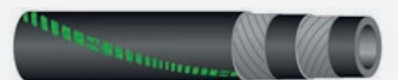
## DAVIS



from W.P. 20 bar (300 psi)	B.P. 60 bar (900 psi)
to W.P. 75 bar (1125 psi)	B.P. 225 bar (3375 psi)
from 8 mm (5/16") to 35 mm (1 3/8")	
from -25°C (-13°F) to +70°C (+158°F)	

Delivery of water and insecticides or herbicides.

- agriculture



## NAIROBI



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 12 mm (15/32") to 51 mm (2")	
from -30°C (-22°F) to +70°C (+158°F)	

Delivery of water and non-corrosive liquids – heavy duty hose suitable to be rolled up on hose reel.

- construction
- agriculture



## DURANA



W.P. 10 bar (150 psi)	B.P. 40 bar (600 psi)
from 25 mm (1") to 100 mm (3 15/16")	
from -30°C (-22°F) to +70°C (+158°F)	

Delivery of water and non-corrosive liquids - hose suitable to be rolled up on hose reel.

- dust eliminating systems
- construction
- mining
- agriculture



## DURANA LL



W.P. 10 bar (150 psi)	B.P. 40 bar (600 psi)
from 25 mm (1") to 100 mm (3 15/16")	
from -30°C (-22°F) to +70°C (+158°F)	

Suction and delivery of water and non-corrosive liquids – heavy duty hose suitable to be rolled up on hose reels.

- dust eliminating systems
- construction
- mining
- agriculture



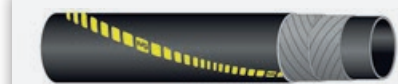
## SNOW GUN



W.P. 40 bar (600 psi)	B.P. 120 bar (1800 psi)
from 19 mm (3/4") to 51 mm (2")	
from -40°C (-40°F) to +60°C (+140°F)	

Delivery of water under pressure from both the main water system to the snow gun and to the gun itself.

- artificial snowing



## FISH PUMP



W.P. 3 bar (45 psi)	B.P. 9 bar (135 psi)
from 254 mm (10") to 406 mm (16")	
from -25°C (-13°F) to +70°C (+158°F)	

Delivery of sea water and fish products – lay flat hose.

- fish farming



## FLEXISIL



from W.P. 1 bar (15 psi)	B.P. 3 bar (45 psi)
to W.P. 3 bar (45 psi)	B.P. 9 bar (135 psi)
from 8 mm (5/16") to 127 mm (5")	
from -50°C (-58°F) to +200°C (+392°F), for few minutes peaks up to +220°C (+428°F)	
SAE J20 R1. Flame retardant compound according to ASTM C-542.	

Delivery of hot air, exhaust gas or fluids such as water mixed with cooling liquids - silicone hose resistant to high temperatures.

- automotive
- pleasure boats
- industrial vehicles
- metallurgy





## FLEXISIL LL



W.P. 3 bar (45 psi)	B.P. 9 bar (135 psi)
from 13 mm (1/2") to 76 mm (3")	
from -50°C (-58°F) to +200°C (+392°F), for few minutes peaks up to +220°C (+428°F)	
SAE J20 R2. Flame retardant compound according to ASTM C-542.	

Suction and delivery of hot air, exhaust gas or fluids such as water mixed with cooling liquids - silicone hose resistant to high temperatures.

- automotive
- pleasure boats
- industrial vehicles
- metallurgy



## FLEXISIL LO



W.P. 3 bar (45 psi)	B.P. 9 bar (135 psi)
from 19 mm (3/4") to 76 mm (3")	
from -50°C (-58°F) to +200°C (+392°F), for few minutes peaks up to +220°C (+428°F)	
SAE J20 R2. Flame retardant compound according to ASTM C-542.	

Suction and delivery of hot air, exhaust gas or fluids such as water mixed with cooling liquids - silicone hose with corrugated cover resistant to high temperatures.

- automotive
- pleasure boats
- industrial vehicles
- metallurgy



## MAX



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 10 mm (25/64") to 102 mm (4")	
from -40°C (-40°F) to +120°C (+248°F)	

Delivery of hot water even slightly acidic or non-aggressive liquids.

- agriculture
- oil & gas
- shipyard
- automotive



## MULTIFORM BLACK



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
W.P. 20 bar (300 psi)	B.P. 60 bar (900 psi)
from 5 mm (11/61") to 19 mm (3/4")	
from -40°C (-40°F) to +120°C (+248°F)	

Delivery of hot water, slightly acidic and non aggressive liquids - extruded hose. Available in two versions: 10 bar (150 psi) and 20 bar (300 psi).

- agriculture
- oil & gas
- shipyard
- automotive
- metallurgy



## HOUSTON



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 13 mm (1/2") to 254 mm (10")	
from -40°C (-40°F) to +120°C (+248°F)	

Suction and delivery of hot water even slightly acidic or non corrosive fluids.

- agriculture
- oil & gas
- automotive
- metallurgy



## ESSEN



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 13 mm (1/2") to 203 mm (8")	
from -40°C (-40°F) to +120°C (+248°F) cover up to +530°C (+986°F)	

Delivery of cooling water - hose with glass fiber cover, resistant against splashes of white hot metal. Insulating version also available.

- metallurgy
- glasswork



## ESSEN LL



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 13 mm (1/2") to 152 mm (6")	
from -40°C (-40°F) to +70°C (+158°F) cover up to +530°C (+986°F)	

Suction and delivery of cooling water - hose with glass fiber cover, resistant against splashes of white hot metal. Insulating version also available.

- metallurgy
- glasswork



## CLEVELAND



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 13 mm (1/2") to 152 mm (6")	
from -40°C (-40°F) to +120°C (+248°F) cover up to +300°C (+572°F)	

Delivery of cooling water - hose with nomex® fiber cover.

- metallurgy
- glasswork



## VAPORCLEAN



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi) hot water
W.P. 6 bar (90 psi)	B.P. 60 bar (900 psi) steam
from 5 mm (12/61") to 38 mm (1 1/2")	
from -30°C (-22°F) to +95°C (+203°F) hot water from -30°C (-22°F) to +165°C (+329°F) steam	
Phthalates free. FDA tit. 21 item 177.2600 aqueous and fatty foods. BfR XXI Cat.2 foods.	

Delivery of hot water and steam.

- washing down in food industries



## FOODLAND®



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi) hot water
W.P. 6 bar (90 psi)	B.P. 60 bar (900 psi) steam
from 13 mm (1/2") to 51 mm (2")	
from -30°C (-22°F) to +95°C (+203°F) hot water from -30°C (-22°F) to +165°C (+329°F) steam	

Delivery of hot water and steam.

- washing down in food industries



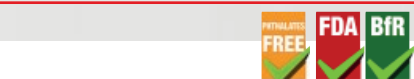


## EASYSOFT



Delivery of hot water - extruded hose very resistant to high temperatures with antimicrobial cover.

washing down in food industries



	W.P. 10 bar (150 psi)    B.P. 30 bar (450 psi)
	from 13 mm (1/2") to 25 mm (1")
	from -20°C (-4°F) to +95°C (+203°F)
	Phthalates free. FDA tit.21 art. 177.2600 aqueous and fatty foods. BFR XXI Cat.3. Cover: according to ISO 22196:2011 (Ref.1).



## HOTOTAL BLUE FDA



Delivery of hot water for dishwashing machines and processing plants – extruded hose.

washing down in food industries

dishwashing machines



	W.P. 10 bar (150 psi)    B.P. 40 bar (600 psi)
	from 5 mm (12/61") to 19 mm (3/4")
	from -30°C (-22°F) to +110°C (+230°F)
	Phthalates free. FDA item 177.2600 tit. 21 aqueous foods.

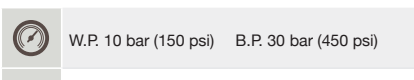


## MICHIGAN

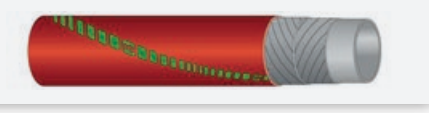


Delivery of hot water.

washing down in food industries



	W.P. 10 bar (150 psi)    B.P. 30 bar (450 psi)
	from 13 mm (1/2") to 38 mm (1 1/2")
	from -40°C (-40°F) to +80°C (+176°F)

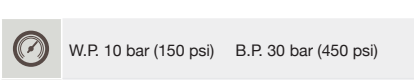


## MULTIPLUS

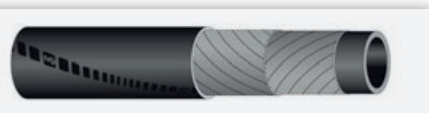


Delivery of hot water.

washing down



	W.P. 10 bar (150 psi)    B.P. 30 bar (450 psi)
	from 13 mm (1/2") to 150 mm (5 29/32")
	from -25°C (-13°F) to +120°C (+248°F)



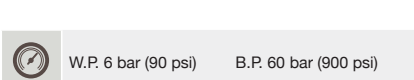
## MANITOBA



Delivery of steam at 165°C.

oil & gas

chemical industry



	W.P. 6 bar (90 psi)    B.P. 60 bar (900 psi)
	from 10 mm (25/64") to 51 mm (2")
	from -40°C (-40°F) to +165°C (+329°F)



## MANITOBA EN ISO 6134



Delivery of steam at 165°C - grade M hose (electrically bonded).

oil & gas

chemical industry

	W.P. 6 bar (90 psi)    B.P. 60 bar (900 psi)
	from 10 mm (25/64") to 102 mm (4")
	from -40°C (-40°F) to +165°C (+329°F)
	EN ISO 6134/05 type 1 class A.



## VICTORIA



Delivery of steam at 210°C (peaks at +230°C) – hose with metallic fabrics.

oil & gas

chemical industry

metallurgy

	W.P. 18 bar (270 psi)    B.P. 180 bar (2700 psi)
	from 10 mm (25/64") to 102 mm (4")
	from -40°C (-40°F) to +210°C (+410°F)



## VICTORIA EN ISO 6134



Delivery of steam at 210°C (peaks at +230°C) - hose with metallic fabrics, electrically conductive. Also available in the version according to BS 5342.

oil & gas

chemical industry

metallurgy

	W.P. 18 bar (270 psi)    B.P. 180 bar (2700 psi)
	from 10 mm (25/64") to 102 mm (4")
	from -40°C (-40°F) to +210°C (+410°F)
	EN ISO 6134/05 type 2 class A (Ω).



## VICTORIA PREMIUM



Delivery of steam at 210°C (peaks at +230°C) - hose with metallic fabrics and IIR tube. oil & gas chemical industry metallurgy

oil & gas

chemical industry

metallurgy

	W.P. 18 bar (270 psi)    B.P. 180 bar (2700 psi)
	from 13 mm (1/2") to 51 mm (2")
	from -40°C (-40°F) to +210°C (+410°F)



## VICTORIA LL



Suction and delivery of steam at 210°C (peaks at +230°C) - hose with metallic fabrics.

oil & gas

chemical industry

metallurgy

	W.P. 18 bar (270 psi)    B.P. 180 bar (2700 psi)
	from 13 mm (1/2") to 102 mm (4")
	from -40°C (-40°F) to +210°C (+410°F)

STEAM STEAM STEAM



### VAPOFER



- W.P. 18 bar (270 psi) B.P. 180 bar (2700 psi)
- from 13 mm (1/2") to 51 mm (2")
- from -40°C (-40°F) to +210°C (+410°F)
- EN ISO 6134/05 type 2 class B (Ω).

Delivery of steam at 210°C (peaks at +230°C) - hose with metallic fabrics, with oil resistant cover.

- oil & gas
- chemical industry
- metallurgy

VENT VENT VENT VENT VENT VENT VENT VENT



### ONTARIO



- from W.P. 1 bar (15 psi) to W.P. 9 bar (135 psi) B.P. 3 bar (45 psi) B.P. 27 bar (405 psi)
- from 19 mm (3/4") to 254 mm (10")
- from -30°C (-22°F) to +85°C (+185°F)

Suction of dust and industrial fumes - lightweight hose.

- shipyard



### ONTARIO LIGHT



- from 25 mm (1") to 102 mm (4")
- from -20°C (-4°F) to +70°C (+158°F)

For ventilation - lightweight and flexible hose.

- industry

FIRE FIRE FIRE FIRE FIRE FIRE FIRE FIRE FIRE FIRE FIRE FIRE



### CHICAGO EN 1947



- W.P. 40 bar (600 psi) B.P. 120 bar (1800 psi)
- from 12 mm (15/32") to 33 mm (1"19/64)
- from -20°C (-4°F) to +60°C (+140°F)
- EN 1947: 2014 type C, class 1, category 2.

Delivery of water and fire fighting liquids - suitable to be rolled on hose reel.

- fire fighting



### CHICAGO GLOW EN 1947



- W.P. 40 bar (600 psi) B.P. 120 bar (1800 psi)
- from 12 mm (15/32") to 33 mm (1"19/64)
- from -20°C (-4°F) to +60°C (+140°F)
- EN 1947: 2014 type C, class 1, category 2.

Delivery of water and fire fighting liquids - suitable to be rolled on hose reel, with very visible and fully luminescent cover.

- fire fighting



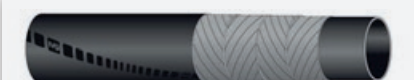
### CHICAGO ASTM



- W.P. 40 bar (600 psi) B.P. 120 bar (1800 psi)
- from 10 mm (25/64") to 25 mm (1")
- from -40°C (-40°F) to +70°C (+158°F)
- Flame retardant cover compound according to ASTM C-542.

Delivery of water and fire fighting liquids - suitable to be rolled on hose reel, with flame retardant cover compound.

- fire fighting



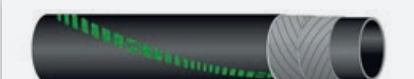
### CHICAGO BS 3169



- W.P. 40 bar (600 psi) B.P. 120 bar (1800 psi)
- from 19 mm (3/4") to 25 mm (1")
- from -40°C (-40°F) to +70°C (+158°F)
- BS 3169/86 class A type 2.

Delivery of water and fire fighting liquids - suitable to be rolled on hose reel.

- fire fighting



### YORK



- W.P. 3 bar (45 psi) B.P. 9 bar (135 psi)
- from 6 mm (1/772") to 152 mm (6")
- from -40°C (-40°F) to +100°C (+212°F)

Delivery of hot water mixed with anti-freeze liquids.

- cooling systems



### DERBY



- from W.P. 2 bar (30 psi) to W.P. 4 bar (60 psi) B.P. 6 bar (90 psi) B.P. 12 bar (180 psi)
- from 8 mm (5/16") to 100 mm (3"15/16)
- from -40°C (-40°F) to +120°C (+248°F)
- DIN 73411:79.

Delivery of hot water mixed with anti-freeze liquids.

- cooling systems



### RADIATOR LIGHT



- W.P. 4 bar (60 psi) B.P. 12 bar (180 psi)
- from 15 mm (19/32") to 76 mm (3")
- from -40°C (-40°F) to +120°C (+248°F)

Suction and delivery of hot water mixed with anti-freeze liquids.

- cooling systems

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### RADIATOR LCL/EPDM



W.P. 4 bar (60 psi)	B.P. 12 bar (180 psi)
from 15 mm (19/32") to 150 mm (5"29/32)	
from -40°C (-40°F) to +100°C (+212°F)	

Suction and delivery of hot water mixed with anti-freeze liquids – hose with square corrugated cover.

cooling systems



### AIR BRAKE DIN 74310



W.P. 10 bar (150 psi)	B.P. 25 bar (375 psi)
from 9 mm (23/64") to 13 mm (1/2")	
from -40°C (-40°F) to +70°C (+158°F)	
DIN 74310.	

Delivery of compressed air with oil traces – extruded hose.

air brake systems



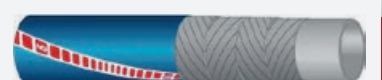
### AIR BRAKE SAE J1402



B.P. 60 bar (900 psi)	
from 9,5 mm (3/8") to 14,5 mm (4/7")	
from -40°C (-40°F) to +100°C (+212°F)	
SAE J1402:2010 type 2A.	

Delivery of compressed air with oil traces – extruded hose.

air brake systems



### MILLENNIUM



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 13 mm (1/2") to 102 mm (4")	
from -30°C (-22°F) to +100°C (+212°F)	
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 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%.	

Delivery of all types of food products.

cellar    brewery    distillery  
dairy    oilmill    canning processes



### MILLENNIUM LL



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 13 mm (1/2") to 102 mm (4")	
from -30°C (-22°F) to +100°C (+212°F)	
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 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%.	

Suction and delivery of all types of food products.

cellar    brewery    distillery  
dairy    oilmill    canning processes



### MILLENNIUM EASY



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 25 mm (1") to 102 mm (4")	
from -30°C (-22°F) to +100°C (+212°F)	
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 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%.	

Suction and delivery of all types of food products - hose with corrugated cover, compatible with EasyShell clamps.

cellar    brewery    distillery  
dairy    oilmill    canning processes



### VINOFLEX EASY



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 25 mm (1") to 102 mm (4")	
from -40°C (-40°F) to +120°C (+248°F)	
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%.	

Suction and delivery of non fatty foods - hose with thermoplastic cover, compatible with EasyShell clamps.

cellar    microbrewery



### TUSCANY



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 51 mm (2") to 80 mm (3"5/32)	
from -40°C (-40°F) to +120°C (+248°F)	
Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Heavy metal tested. Bisphenol A free. FDA tit.21 art.177.2600 aqueous foods. BFR XXI Cat.2 foods. D.M. 21/03/73 aqueous and alcohol up to 96%.	

Suction and delivery of non fatty foods, in particular fine wines and alcohols at 96% - hose with external plastic wire that reduces friction.

cellar    brewery



### PIEDMONT



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 38 mm (1"1/2) to 76 mm (3")	
from -20°C (-4°F) to +70°C (+158°F)	
Reg. EC 1935/04 and EC 2023/06. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). Heavy metal tested. Bisphenol A free. FDA tit.21 art.177.2600 aqueous foods. BFR XXI Cat.2 foods. D.M. 21/03/73 aqueous and alcohol up to 96%.	

Delivery of non fatty foods, in particular fine wines and alcohols at 96% - hose with external plastic wire that reduces friction.

cellar    brewery



### SCOTLAND



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 13 mm (1/2") to 102 mm (4")	
from -40°C (-40°F) to +120°C (+248°F)	
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%.	

Delivery of non fatty foods and alcohols at 96% - high quality hose.

cellar    brewery    distillery

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## SCOTLAND LL



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 13 mm (1/2") to 102 mm (4")	
from -40°C (-40°F) to +120°C (+248°F)	
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%.	

Suction and delivery of non fatty foods and alcohols at 96% - high quality hose.

- cellar
- brewery
- distillery



## SHETLAND



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 25 mm (1") to 102 mm (4")	
from -30°C (-22°F) to +80°C (+176°F)	
Reg. EC 1935/04 and EC 2023/06. Reg. EU 10/2011 aqueous, fatty and alcoholic foods up to 96%. Phthalates free. Tested and homologated by BNIC. FDA title 21 item 177.1520 foods. BfR III.	

Suction and delivery of fine alcoholic products up to 96%.

- distillery



## ACQUABLU®



W.P. 20 bar (300 psi)	B.P. 60 bar (900 psi)
from 10 mm (25/64") to 25 mm (1")	
from -30°C (-22°F) to +60°C (+140°F)	
Reg. EC 1935/04 and EC 2023/06. Reg. EU 10/2011 aqueous, fatty and alcoholic foods up to 96%. 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.	

Delivery of potable water.

- domestic use
- camping
- food industries



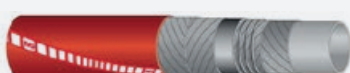
## MERLOT



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 13 mm (1/2") to 102 mm (4")	
from -35°C (-31°F) to +70°C (+158°F)	
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%.	

Delivery of non fatty foods.

- cellar



## PARRY



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 13 mm (1/2") to 102 mm (4")	
from -35°C (-31°F) to +70°C (+158°F)	
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%.	

Suction and delivery of non fatty foods.

- cellar



## ALICANTE



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 19 mm (3/4") to 102 mm (4")	
from -40°C (-40°F) to +120°C (+248°F)	
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.	

Suction and delivery of many food products, with the exception of fatty foods and oils. Suitable for hot air at 140°C.

- dairy
- canning processes
- tank truck



## MILKSERVICE LL



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 19 mm (3/4") to 102 mm (4")	
from -40°C (-40°F) to +120°C (+248°F)	
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.	

Suction and delivery of milk and liquid dairy products.

- dairy
- tank truck



## PANAMA



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 19 mm (3/4") to 102 mm (4")	
from -15°C (+5°F) to +90°C (+194°F)	
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.	

Delivery of liquid fatty products, particularly suitable for oil and fatty foods.

- dairy
- fatty foods



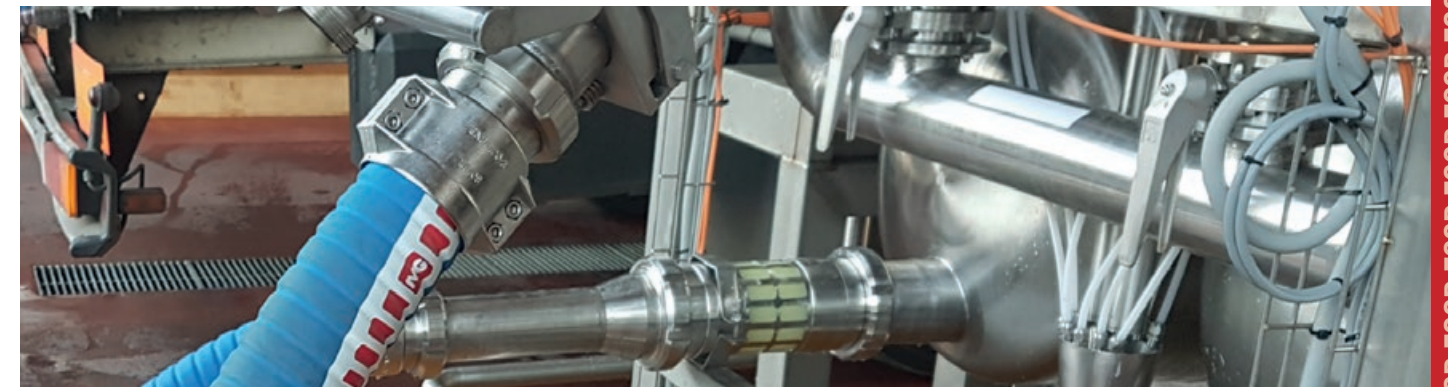
## ACAPULCO



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 19 mm (3/4") to 102 mm (4")	
from -15°C (+5°F) to +90°C (+194°F)	
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.	

Suction and delivery of liquid fatty products, particularly suitable for oil and fatty foods.

- dairy
- fatty foods













## NIAGARA



	W.P. 40 bar (600 psi) B.P. 120 bar (1800 psi)
	from 19 mm (3/4") to 152 mm (6")
	from -40°C (-40°F) to +70°C (+158°F)
	Abrasion loss of the tube according to ISO 4649: 70+/-5mm <sup>3</sup> .

Delivery of concrete, plaster and gypsum.

construction

mining



## SHANNON 85



	W.P. 85 bar (1275 psi) B.P. 200 bar (3000 psi)
	from 51 mm (2") to 125 mm (4"59/64)
	from -40°C (-40°F) to +70°C (+158°F)

Delivery of concrete – hose with 4 plies of steel wire cord.

construction

tank truck



## AVON



	W.P. 100 bar (1500 psi) B.P. 200 bar (3000 psi)
	from 100 mm (4") to 125 mm (4"59/64)
	from -40°C (-40°F) to +70°C (+158°F)

Delivery of concrete – hose with special textile plies. It prevents the whip effect and absorbs shocks and vibrations.

construction

tank truck



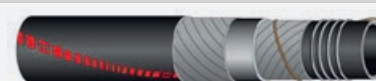
## VIBRATOR CM



	W.P. 15 bar (225 psi) B.P. 45 bar (675 psi)
	from 19 mm (3/4") to 30 mm (1"3/16)
	from -10°C (-14°F) to +70°C (+158°F)

Delivery of compressed air – hose with metal reinforcements for submerged vibrators.

construction



## VOLGA



	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 51 mm (2") to 152 mm (6")
	from -30°C (-22°F) to +70°C (+158°F)
	Abrasion loss of the tube according to ISO 4649: 70+/-5mm <sup>3</sup> .

Suction and delivery of abrasive materials.

tank truck

construction

mining



## VOLGA FRA



	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 51 mm (2") to 300 mm (11"13/16)
	from -40°C (-40°F) to +70°C (+158°F)

Suction and delivery of a wide range of abrasive products mixed with water or only dust – hose with corrugated cover supplied with semi-flange shells UNI PN 10 and ASA 150.

construction

mining



## ALBERT



	from 150 mm (6") to 500 mm (19"11/16)
	from -40°C (-40°F) to +70°C (+158°F)

Suction of sand and gravel mixed with water in dredging operations.

discharge dredging systems



## MURRAY



	W.P. 8 bar (120 psi) B.P. 24 bar (360 psi)
	from 100 mm (3"15/16) to 590 mm (23"1/4)
	from -40°C (-40°F) to +70°C (+158°F)

Delivery of sand and gravel or debris mixed with water.

sections of discharge pipe in dredging service



## VOLGA OND



	W.P. 5 bar (75 psi) B.P. 15 bar (225 psi)
	from 51 mm (2") to 500 mm (19"11/16)
	from -40°C (-40°F) to +70°C (+158°F)

Suction and delivery of sand and gravel mixed with water.

discharge dredging systems



## DRAGASTEEL



	W.P. 15 bar (225 psi) B.P. 45 bar (675 psi)
	from 200 mm (7"7/8) to 590 mm (23"1/4)
	from -40°C (-40°F) to +70°C (+158°F)

Delivery of sand, gravel and debris mixed with water – hose with plies of steel wire cord.

discharge dredging systems



### DRAGASTEEL LIGHT TI



	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 200 mm (7"7/8) to 500 mm (19"11/16)
	from -40°C (-40°F) to +70°C (+158°F)

Delivery of sand, gravel and debris mixed with water – hose with plies of steel wire cord.

discharge dredging systems



### DRAWA



	from 200 mm (7"7/8) to 700 mm (27"1/2)
	from -40°C (-40°F) to +70°C (+158°F)

Suction of water, mud and dredging debris – hose built with steel rings.

suction ducts on dredgers (sleeves)



### EAGLE



	W.P. 28 bar (420 psi) B.P. 120 bar (1800 psi)
	28 mm (1"7/64)
	from -25°C (-13°F) to +90°C (+194°F)
	Hose according to EN 45545-2:13, HL3 for internal (R22) and external (R23). For standard construction contact IVG.

Delivery of compressed air – fire resistant hose, with very low toxicity and smoke emission, halogen free.

braking systems compressed air



### HAWK



	W.P. 28 bar (420 psi) B.P. 120 bar (1800 psi)
	28 mm (1"7/64)
	from -40°C (-40°F) to +90°C (+194°F)
	Hose according to EN 45545-2:15, HL2 for internal (R22) and external (R23). For standard construction contact IVG.

Delivery of compressed air – fire resistant hose, with very low toxicity and smoke emission, halogen free. Suitable for low temperatures.

braking systems compressed air



### SPARROW/2FV



	B.P. 75 bar (1125 psi)
	from 13 mm (1/2") to 38 mm (1"1/2)
	from -30°C (-22°F) to +80°C (+176°F)
	Technical Specification Trenitalia n° 373407. EN 45545-2:15 HL3 for internal (R22) and external (R23). EN 50553 tested according to ISO 15540.

Patented hose for the delivery of compressed air - fire resistant with very low toxicity and smoke emission, halogen free. It meets the Running Capability.

braking systems compressed air



### UIC-830-1-85



	n.a.
	from 18 mm (23/32") to 35 mm (1"3/8)
	UIC-830-1-85.

Delivery of compressed air.

braking systems compressed air



### UIC COLD



	B.P. 70 bar (1050 psi)
	from 18 mm (23/32") to 35 mm (1"3/8)
	from -40°C (-40°F) to +70°C (+158°F)
	UIC-830-1-85. EN 15807:11. Cover according to DIN 5510-2 class S4 - SR2 - ST2 - FED<0,1; NF F 16-101 F3 I2 (grid 5 and 6).

Delivery of compressed air – hose for temperatures down to -40°C (-40°F).

braking systems compressed air



### UIC POLAR



	B.P. 70 bar (1050 psi)
	from 8 mm (5/16") to 35 mm (1"3/8)
	from -50°C (-58°F) to +70°C (+158°F)
	UIC-830-1-85.

Delivery of compressed air – hose for temperatures down to -50°C (-58°F).

braking systems compressed air



### AIR NF F 11-380/CAT.2



	B.P. 50 bar (750 psi)
	from 6 mm (1/4") to 32 mm (1"1/4)
	from -30°C (-22°F) to +70°C (+158°F)
	NF F 11-380/cat.2. EN 45545-2:15 HL3 R22 and R23; BS 6853.

Delivery of compressed air.

compressed air wagons and locomotives







### SANITARY PREMIUM



Suction and delivery of water.

sanitary connections of toilets

	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 22 mm (7/8") to 76 mm (3")
	from -30°C (-22°F) to +70°C (+158°F)
	Rubber: EN 45545:2013 HL3 R22 and R23; BS 6853.



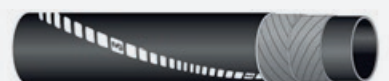
### CAVI 99



Lightweight softwall hose made with a flame retardant compound with low emission of matt fumes and low toxicity of combustion gas.

protection of electrical cables

	n.a.
	from 10 mm (25/64") to 70 mm (2"3/4)
	from -30°C (-22°F) to +80°C (+176°F)
	Technical Specification Trenitalia n° 304188. EN 45545-2:2015 HL2 R22 and R23.



### UNI 4882



Delivery of compressed air with excellent resistance to surface electrical tension.

pneumatic control pantographs contactors  
equipment for protection and control

	W.P. 20 bar (300 psi) B.P. 60 bar (900 psi)
	from 8 mm (5/16") to 13 mm (1/2")
	from -30°C (-22°F) to +90°C (+194°F)
	Hose according to EN 45545-2:15, HL2 for internal (R22) and external (R23); UNI 4882. Rubber: UNI CEI 11170-1-2-3, NF F 16-101 F1-I3 (grid 10 and 11), EN ISO 11925-2 LR4.



### HOUSTON/PET



Suction and delivery of deionised water and ethylene glycol.

underchassis cooling system

	W.P. 5 bar (75 psi) B.P. 30 bar (450 psi)
	from 10 mm (25/64") to 40 mm (1"37/64)
	from -40°C (-40°F) to +80°C (+176°F)
	Rubber: UNI CEI 11170-1-2-3; NF F 16-101 F1-I3 (grid 10 and 11); EN 45545-2:13 HL2 R22 and R23; DIN 5510-2 class S4-SR2-ST2-FED<0,1.



### RAILFLEX



Leveling gravel in the railroads.

maintenance of the ballast

	n.a.
	from 32 mm (1"1/4) to 35 mm (1"3/8)
	from -40°C (-40°F) to +70°C (+158°F)



### ORINOCO/TRACK



Delivery of sand.

sandblasting

	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 19 mm (3/4") to 32 mm (1"1/4)
	from -40°C (-40°F) to +70°C (+158°F)
	Tube abrasion loss according to ISO 4649: 70 +/- 5 mm <sup>3</sup> .



### AUSTRALIA EN 1360:05



Delivery of petroleum products with aromatic content up to 50% in hydraulic systems. Electrically continuous hose, R<10<sup>2</sup> Ω/application lengths, ensured by connecting the copper wires to the couplings.

tank truck oil & gas

	W.P. 16 bar (240 psi) B.P. 48 bar (720 psi)
	from 16 mm (5/8") to 50 mm (2")
	from -30°C (-22°F) to +55°C (+131°F)
	EN 1360:05 type 1, category M.



### AUSTRALIA



Delivery of petroleum products with aromatic content up to 30%.

tank truck oil & gas low pressure hydraulics

	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 13 mm (1/2") to 152 mm (6")
	from -20°C (-4°F) to +70°C (+158°F)



### CARBUR



Fuel delivery - extruded hose for lubrication and greasing. Available in two versions: 10 bar (150 psi) and 20 bar (300 psi).

tank truck oil & gas low pressure hydraulics

	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 5 mm (12/61") to 25 mm (1")
	from -20°C (-4°F) to +90°C (+194°F)





### GREEN CARBUR COLD 10



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 6 mm (17/72") to 19 mm (3/4")	
from -40°C (-40°F) to +80°C (+176°F)	

Fuel delivery - extruded hose for lubrication and greasing at low temperatures.

tank truck oil & gas



### PUERTORICO



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 19 mm (3/4") to 152 mm (6")	
from -20°C (-4°F) to +70°C (+158°F)	

Suction and delivery of petroleum products with aromatic content up to 30%.

tank truck oil & gas mining



### GENOVA GLOBAL



W.P. 16 bar (240 psi)	B.P. 64 bar (960 psi)
from 19 mm (3/4") to 100 mm (3"15/16)	
from -30°C (-22°F) to +90°C (+194°F), with peaks up to +110°C (+230°F)	
EN 12115:11 (16 bar), EN 1761 (10 bar), ISO 2929 (10 bar), TRbF.	

Delivery of unleaded gasoline and fuels with aromatic content up to 50%. Electrically conductive hose, Ω/T grade. R<10<sup>6</sup> Ω/lgth for lengths equal or less than 40 m.

tank truck oil & gas



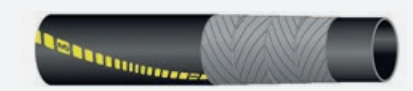
### GENOVA GLOBAL LL



W.P. 16 bar (240 psi)	B.P. 64 bar (960 psi)
from 19 mm (3/4") to 100 mm (3"15/16)	
from -30°C (-22°F) to +90°C (+194°F), with peaks up to +110°C (+230°F)	
EN 12115:11 (16 bar), EN 1761 (10 bar), ISO 2929 (10 bar), TRbF.	

Suction and delivery of unleaded gasoline and fuels with aromatic content up to 50%. Electrically conductive hose, Ω/T grade. R<10<sup>6</sup> Ω/lgth for lengths equal or less than 40 m. It can be used in ATEX environments.

tank truck oil & gas



### AVIO GLOBAL C



W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
from 19 mm (3/4") to 100 mm (3"15/16)	
from -25°C (-13°F) to +70°C (+158°F)	
ISO 1825, API 1529, AS 2683, VG 95955, NFPA 407.	

Delivery of petroleum products and jet A1 fuel with aromatic content up to 50% - electrically conductive hose, type C.

tank truck oil & gas



### AVIO GLOBAL E



W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
from 19 mm (3/4") to 100 mm (3"15/16)	
from -25°C (-13°F) to +70°C (+158°F)	
ISO 1825, API 1529, AS 2683, VG 95955, NFPA 407.	

Suction and delivery of petroleum products and jet A1 fuel with aromatic content up to 50% - M grade hose (electrically bonded), type E.

tank truck oil & gas



### AVIO GLOBAL F



W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
from 19 mm (3/4") to 100 mm (3"15/16)	
from -25°C (-13°F) to +70°C (+158°F)	
ISO 1825, API 1529, AS 2683, VG 95955, NFPA 407.	

Suction and delivery of petroleum products and jet A1 fuel with aromatic content up to 50% - electrically conductive hose, type F.

tank truck oil & gas



### SAE/100/R4



from W.P. 2,5 bar (38 psi) to W.P. 21 bar (315 psi)	B.P. 10 bar (150 psi) B.P. 84 bar (1260 psi)
from 16 mm (5/8") to 102 mm (4")	
from -40°C (-40°F) to +100°C (+212°F)	
SAE J 517, type SAE 100 R4.	

Suction and delivery of oil in hydraulic systems.

low pressure hydraulics



### TALLIN



from W.P. 5 bar (75 psi) to W.P. 10 bar (150 psi)	B.P. 15 bar (225 psi) B.P. 30 bar (450 psi)
from 19 mm (3/4") to 102 mm (4")	
from -40°C (-40°F) to +100°C (+212°F)	
SAE J517, type SAE 100 R4 for the rubber compounds.	

Suction and delivery of oil in hydraulic systems.

tank truck low pressure hydraulics oil & gas

automotive mining



### MALMO



W.P. 10 bar (150 psi)	B.P. 30 bar (450 psi)
from 16 mm (5/8") to 203 mm (8")	
from -20°C (-4°F) to +100°C (+212°F)	

Suction and delivery of oil in hydraulic systems.

low pressure hydraulics oil & gas automotive





## LPG



	W.P. 25 bar (375 psi) B.P. 100 bar (1500 psi)
	from 13 mm (1/2") to 100 mm (4")
	from -30°C (-22°F) to +70°C (+158°F)
	EN 1762:2017 - type D.

Delivery of liquefied petroleum gas, LPG (liquid or gas) and natural gas. Electrically conductive hose, Ω grade, R<10<sup>6</sup> Ω on service lengths. M version available upon request, with electrical resistance R<10<sup>2</sup> Ω on service lengths assured through the connection between copper wires and the fitted couplings.

tank truck oil & gas



## IVALO



	W.P. 5 bar (75 psi) B.P. 15 bar (225 psi)
	from 19 mm (3/4") to 102 mm (4")
	from -30°C (-22°F) to +120°C (+248°F)

Suction and delivery of oil with aromatic content up to 30%, except oil with ester base - flexible and lightweight hose.

low pressure hydraulics oil & gas automotive



## COMPRESSOR



	W.P. 40 bar (600 psi) B.P. 120 bar (1800 psi)
	from 13 mm (1/2") to 51 mm (2")
	from -30°C (-22°F) to +130°C (+266°F), intermittent service +150°C (+302°F)
	Cover according to MSHA.

Delivery of oil at high temperatures, except oil with ester base.

low pressure hydraulics mining



## BITUMENFLEX



	W.P. 15 bar (225 psi) B.P. 45 bar (675 psi)
	from 102 mm (4") to 203 mm (8")
	from -15°C (+5°F) to +175°C (+347°F)
	EN 13482:2001 Type 2 Class A.

Suction and delivery of hot asphalt.

oil & gas dock



## BAHAMAS



	W.P. 5 bar (75 psi) B.P. 20 bar (300 psi)
	from 76 mm (3") to 152 mm (6")
	from -25°C (-13°F) to +80°C (+176°F)

Hose for the drainage of rain water from floating roof storage tanks.

oil & gas chemical industry



## MARTIN



	W.P. 20 bar (300 psi) B.P. 60 bar (900 psi)
	from 38 mm (1 1/2") to 51 mm (2")
	from -30°C (-22°F) to +100°C (+212°F)

Hose for cleaning tankers with water and detergents.

oil & gas chemical industry



## MARSHALL



	W.P. 15 bar (225 psi) B.P. 60 bar (900 psi)
	from 51 mm (2") to 203 mm (8")
	from -20°C (-4°F) to +82°C (+180°F)
	EN 1765 type L 15, BS 1435 type L 15.

Delivery of petroleum products with aromatic content up to 50% - electrically continuous hose with copper wires, used for loading and unloading from tanker and barges.

oil & gas dock



## TRANSOIL



	W.P. 15 bar (225 psi) B.P. 60 bar (900 psi)
	from 51 mm (2") to 203 mm (8")
	from -20°C (-4°F) to +82°C (+180°F)
	EN 1765 type S 15, BS 1435 type S 15. RINA approved n. MAC054314CS/002.

Suction and delivery of petroleum products with an aromatic content up to 50% - electrically continuous hose with copper wires, used for loading and unloading from tankers and barges.

oil & gas dock



## FILICUDI



	W.P. 15 bar (225 psi) B.P. 60 bar (900 psi)
	from 51 mm (2") to 203 mm (8")
	from -20°C (-4°F) to +82°C (+180°F)
	EN 1765 type S 15 - BS 1435 type S 15. RINA approved n. MAC054314CS/003.

Suction and delivery of petroleum products with an aromatic content up to 50% - electrically discontinuous hose used in ship to ship loading and unloading operations.

oil & gas lightering

**PL EFESTO SD 25**

	W.P. 25 bar (375 psi)	B.P. 105 bar (1575 psi)
	from 19 mm (3/4") to 203 mm (8")	
	from -30°C (-22°F) to +90°C (+194°F)	
	ISO 15540, PDA ABS Nr. 18-GE1736024-PDA.	

Suction and delivery of seawater, mud, oil and petroleum products with maximum aromatic content up to 30% - hose according to ISO 15540 for fire resistance at 800°C for 30'.

oil & gas    oil rig

**PL FUEL 20 - 27**

	W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
	W.P. 27 bar (405 psi)	B.P. 108 bar (1620 psi)
	from 51 mm (2") to 152 mm (6")	
	from -20°C (-4°F) to +90°C (+194°F)	
	Flame retardant cover compound according to ASTM C-542, PDA ABS Nr. 18-GE1736024-PDA.	

Delivery of petroleum products with aromatic content up to 50% and drilling mud mixed with oil. ABS Type Approved hose. Also available without ABS Type Approval.

oil & gas    oil rig

**PL FUEL SD 20 - 27 - 35**

	W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
	W.P. 27 bar (405 psi)	B.P. 108 bar (1620 psi)
	W.P. 35 bar (525 psi)	B.P. 140 bar (2100 psi)
	from 51 mm (2") to 203 mm (8") for 20 bar and 27 bar from 51 mm (2") to 152 mm (6") for 35 bar	
	from -20°C (-4°F) to +90°C (+194°F)	
	Flame retardant cover compound according to ASTM C-542, PDA ABS Nr. 18-GE1736024-PDA.	

Suction and delivery of petroleum products with aromatic content up to 50% and drilling mud mixed with oil. ABS Type Approved hose. Also available without ABS Type Approval.

oil & gas    oil rig

**PL FUEL SD FLOATING D1**

	W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
	from 76 mm (3") to 152 mm (6")	
	from -20°C (-4°F) to +90°C (+194°F)	
	PDA ABS Nr. 18-GE1736024-PDA.	

Suction and delivery of drilling mud and petroleum products with aromatic content up to 50% - self floating hose. ABS Type Approved hose. Also available without ABS Type Approval.

oil & gas    oil rig

**PL POTABLE 20**

	W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
	from 51 mm (2") to 102 mm (4")	
	from -40°C (-40°F) to +100°C (+212°F)	
	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 foods. BFR XXI Cat.2 foods. PDA ABS Nr. 18-GE1736024-PDA.	

Delivery of drinking water from ship to oil rig. ABS Type Approved hose. Also available without ABS Type Approval.

oil & gas    oil rig    drinking water

**PL POTABLE SD 20**

	W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
	from 51 mm (2") to 102 mm (4")	
	from -40°C (-40°F) to +100°C (+212°F)	
	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 foods. BFR XXI Cat.2 foods. PDA ABS Nr. 18-GE1736024-PDA.	

Suction and delivery of drinking water from ship to oil rig. ABS Type Approved hose. Also available without ABS Type Approval.

oil & gas    oil rig    drinking water

**PL POTABLE SD FLOATING D1**

	W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
	from 51 mm (2") to 102 mm (4")	
	from -40°C (-40°F) to +100°C (+212°F)	
	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 foods. BFR XXI Cat.2 foods. PDA ABS Nr. 18-GE1736024-PDA.	

Suction and delivery of drinking water from ship to oil rig. Self floating hose. ABS Type Approved hose. Also available without ABS Type Approval.

oil & gas    oil rig    drinking water

**PL ABRASIVE 20**

	W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
	from 102 mm (4") to 127 mm (5")	
	from -25°C (-13°F) to +70°C (+158°F)	
	PDA ABS Nr. 18-GE1736024-PDA.	

Delivery of barite and bentonite and other abrasive materials. ABS Type Approved hose. Also available without ABS Type Approval.

oil & gas    oil rig

**PL ABRASIVE SD 20**

	W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
	from 102 mm (4") to 127 mm (5")	
	from -25°C (-13°F) to +70°C (+158°F)	
	PDA ABS Nr. 18-GE1736024-PDA.	

Suction and delivery of barite, bentonite and other abrasive materials. ABS Type Approved hose. Also available without ABS Type Approval.

oil & gas    oil rig

**PL ABRASIVE LL FLOAT**

	W.P. 20 bar (300 psi)	B.P. 80 bar (1200 psi)
	from 102 mm (4") to 127 mm (5")	
	from -25°C (-13°F) to +70°C (+158°F)	

Suction and delivery of barite, bentonite and other abrasive materials - self floating hose.

oil & gas    oil rig







### SUPERTOP PE-X/LL

W.P. 10 bar (150 psi)	B.P. 40 bar (600 psi)
from 13 mm (1/2") to 102 mm (4")	
from -40°C (-40°F) to +70°C (+158°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.	

Suction and delivery of chemicals, petroleum products and oils – hose with PE-X tube.

- oil & gas
- chemical industry
- tank truck



### SUPERTOP UPE

W.P. 16 bar (240 psi)	B.P. 64 bar (960 psi)
from 19 mm (3/4") to 102 mm (4")	
from -40°C (-40°F) to +100°C (+212°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.	
EN 12115:11. Tube: Reg. EC 1935/04 and EC 2023/06. Reg. EU 10/2011 aqueous and fatty foods. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). FDA tit.21 item 177.1520 foods. BfR III.	

Delivery of aggressive chemicals, solvents and food – hose with PE-UHMW tube.

- oil & gas
- chemical industry
- tank truck
- food industry



### SUPERTOP UPE/LL

W.P. 16 bar (240 psi)	B.P. 64 bar (960 psi)
from 19 mm (3/4") to 102 mm (4")	
from -40°C (-40°F) to +100°C (+212°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.	
EN 12115:11. Tube: Reg. EC 1935/04 and EC 2023/06. Reg. EU 10/2011 aqueous and fatty foods. Phthalates free. PAHs free (acc. to ZEK 01.4-08 Cat. 1). FDA tit.21 item 177.1520 foods. BfR III.	

Suction and delivery of aggressive chemicals, solvents and food – hose with PE-UHMW tube.

- oil & gas
- chemical industry
- tank truck
- food industry



### SUPERTOP LO BV

W.P. 10 bar (150 psi)	B.P. 40 bar (600 psi)
from 19 mm (3/4") to 102 mm (4")	
from -20°C (-4°F) to +70°C (+158°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.	

Suction and delivery of a wide range of chemicals, petroleum products and oils - polyvalent hose with PE-X tube.

- oil & gas
- chemical industry
- tank truck

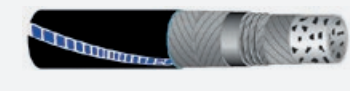


### SUPERTOP UPE COND/LL

W.P. 16 bar (240 psi)	B.P. 64 bar (960 psi)
from 19 mm (3/4") to 102 mm (4")	
from -40°C (-40°F) to +100°C (+212°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.	
EN 12115:11.	

Suction and delivery of aggressive chemicals, petroleum products and oils - hose with PE-UHMW tube. Electrically conductive hose, even through the hose wall. Ω/T grade. R<10<sup>6</sup> Ω/Igth, for lengths equal or less than 40 m. It can be used in ATEX environment.

- oil & gas
- chemical industry
- tank truck



### THUNDERFLEX

W.P. 16 bar (240 psi)	B.P. 64 bar (960 psi)
from 13 mm (1/2") to 100 mm (3"15/16)	
from -30°C (-22°F) to +100°C (+212°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.	
EN 12115:11. Tube: 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.	

Suction and delivery of aggressive chemicals, petroleum and food products – hose with PE-UHMW tube. Electrically conductive hose, even through the hose wall. Ω/T grade. R<10<sup>6</sup> Ω/Igth, for lengths equal or less than 40 m. It can be used in ATEX environment.

- oil & gas
- chemical industry
- tank truck
- food industry



### TEFLEX

W.P. 16 bar (240 psi)	B.P. 64 bar (960 psi)
from 19 mm (3/4") to 76 mm (3")	
from -40°C (-40°F) to +150°C (+302°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.	
EN 12115:11. Tube: USP Class VI. Phthalates free. FDA tit.21 item 177.1550 foods.	

Suction and delivery of chemicals and solvents - hose with FEP tube.

- oil & gas
- chemical industry
- food industry



### TEFLEX OMEGA

W.P. 16 bar (240 psi)	B.P. 64 bar (960 psi)
from 19 mm (3/4") to 76 mm (3")	
from -40°C (-40°F) to +150°C (+302°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.	
EN 12115:11. Tube: USP Class VI. Phthalates free. FDA tit.21 item 177.1550 foods.	

Suction and delivery of chemicals and solvents - hose with FEP tube. Electrically conductive hose, Ω grade, R<10<sup>6</sup> Ω/Igth, for lengths equal or less than 40 m.

- oil & gas
- chemical industry
- food industry

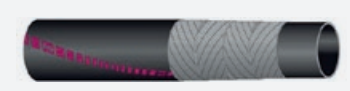


### FLUOSTAR

W.P. 16 bar (240 psi)	B.P. 64 bar (960 psi)
from 19 mm (3/4") to 76 mm (3")	
from -40°C (-40°F) to +150°C (+302°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.	
EN 12115:11. Tube: USP Class VI. Phthalates free. FDA tit.21 item 177.1550 foods.	

Suction and delivery of chemicals and solvents - hose with PFA tube. Electrically conductive hose, even through the hose wall. Ω/T grade. R<10<sup>6</sup> Ω/Igth, for lengths equal or less than 40 m. It can be used in ATEX environment.

- oil & gas
- chemical industry
- tank truck



### REAL

W.P. 10 bar (150 psi)	B.P. 40 bar (600 psi)
from 19 mm (3/4") to 102 mm (4")	
from -25°C (-13°F) to +100°C (+212°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.	

Delivery of chemicals and solvents – hose with FKM tube.

- oil & gas
- chemical industry





## PROVIDENCE



	W.P. 10 bar (150 psi) B.P. 40 bar (600 psi)
	from 19 mm (3/4") to 102 mm (4")
	from -25°C (-13°F) to +100°C (+212°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.

Suction and delivery of chemicals and solvents – hose with FKM tube.

oil & gas chemical industry



## VERNICI PE-X



	W.P. 10 bar (150 psi) B.P. 40 bar (600 psi)
	from 10 mm (25/64") to 38 mm (1 1/2")
	from -20°C (-4°F) to +70°C (+158°F) depending on medium. For temperatures above +50°C (+122°F) contact IVG.

Delivery of varnish, lakes, inks and solvents – hose with PE-X tube. The conductive version with PE-UHMW tube is also available.

oil & gas automotive



## CABLE



	n.a.
	from 20 mm (25/32") to 55 mm (2 11/16")
	from -30°C (-22°F) to +80°C (+176°F)

Electical cable covering.

shipyard metallurgy



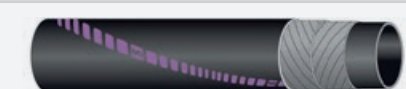
## COOLCABLE



	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 12 mm (15/32") to 55 mm (2 11/16")
	from -30°C (-22°F) to +80°C (+176°F)

Electrical cable cooling.

metallurgy



## IVG-GUARDIAN™ ELECTRO



	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 13 mm (1/2") to 100 mm (3 15/16")
	from -40°C (-40°F) to +90°C (+194°F), with peaks up to +110°C (+230°F)
	Rubber cover flame retardant according to ASTM C-542. Tolerances on I.D. according to UNI EN ISO 1307/1997. Tolerances on wall thickness from 5,1 mm to 7 mm: +/- 0,7 mm - from 7,1 mm to 10 mm: +/- 0,8 mm.

Sleeve for cooling electrical cables - elongation percentage: ±2% with hose at working pressure.

metallurgy



## COOLINGFLEX



	W.P. 6 bar (90 psi) B.P. 30 bar (450 psi)
	from 127 mm (5") to 203 mm (8")
	from -40°C (-40°F) to +80°C (+176°F)

Protection and cooling of high voltage and high-section electric cables – hose resistant to radiant heat and splashes of white-hot metal.

metallurgy



## POSEIDON



	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 8 mm (5/16") to 60 mm (2 3/8")
	from -30°C (-22°F) to +100°C (+212°F)
	European directive 2013/53/UE, ISO 7840:13 A1 E10/B10 compatible, RINA Approved. SAE J 1527:11. USCG Type A1 Style R1.

Fuel delivery with aromatic content up to 50% - flame retardant hose.

pleasure boats fuels



## POSEIDON EXTR



	from W.P. 2,5 bar (38 psi) B.P. 10 bar (150 psi) to W.P. 3,4 bar (51 psi) B.P. 13,6 bar (204 psi)
	from 6 mm (17/72") to 19 mm (3/4")
	from -20°C (-4°F) to +100°C (+212°F)
	European directive 2013/53/UE, ISO 7840:13 A1 E10/B10 compatible, RINA Approved. SAE J 1527:11. USCG Type A1

Delivery of petrol or diesel – fire resistant extruded hose.

pleasure boats fuels



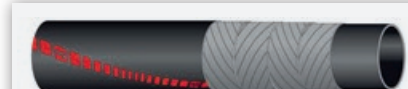
## POSEIDON LL



	W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
	from 19 mm (3/4") to 60 mm (2 3/8")
	from -30°C (-22°F) to +100°C (+212°F)
	European directive 2013/53/UE, ISO 7840:13 A1 E10/B10 compatible, RINA Approved. SAE J 1527:11. USCG Type A1 Style R2.

Suction and delivery of fuels with aromatic content up to 50% - hose suitable for tight bending radii.

pleasure boats fuels



## AMALFI CORD



	B.P. 2,5 bar (38 psi)
	from 19 mm (3/4") to 450 mm (17 23/32")
	from -30°C (-22°F) to +100°C (+212°F)
	ISO 13363:04 type 1B. SAE J 2006:03 type R1. R.I.N.A. and Lloyd's approved.

Delivery of gas exhaust mixed with sea water.

pleasure boats gas exhaust



### AMALFI LL



- W.P. 2,5 bar (38 psi)
- from 20 mm (25/32") to 75 mm (2"61/64)
- from -30°C (-22°F) to +100°C (+212°F)
- ISO 13363:04 type 2B. SAE J 2006:03 type R2. R.I.N.A. and Lloyd's approved.

Suction and delivery of gas exhaust mixed with sea water.

pleasure boats

gas exhaust



### AMALFI LO



- W.P. 2,5 bar (38 psi)
- from 76 mm (3") to 254 mm (10")
- from -30°C (-22°F) to +100°C (+212°F)
- ISO 13363:04 type 2B. SAE J 2006:03 type R2. R.I.N.A. and Lloyd's approved.

Suction and delivery of gas exhaust mixed with sea water – hose with corrugated cover.

pleasure boats

gas exhaust



### ETNA

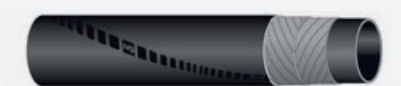


- W.P. 2 bar (30 psi)
- from 25 mm (1") to 305 mm (12")
- from -30°C (-22°F) to +100°C (+212°F)
- Lloyd's Register Rules and Regulations for the Classification of Special Service Craft: Type Approval Certificate 99/0169(E4). Homologation VTT according to Nordic Boat Standard MC9.

Delivery of gas exhaust mixed with cooling water - hose with corrugated cover.

pleasure boats

exhaust gas



### BOATEX

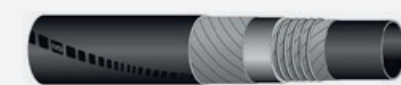


- W.P. 3 bar (45 psi) B.P. 9 bar (135 psi)
- from 16 mm (5/8") to 152 mm (6")
- from -30°C (-22°F) to +80°C (+176°F)
- SAE J 2006 R1.

Delivery of water and exhaust gas.

pleasure boats

exhaust gas



### BOATEX LL



- W.P. 3 bar (45 psi) B.P. 9 bar (135 psi)
- from 25 mm (1") to 102 mm (4")
- from -30°C (-22°F) to +80°C (+176°F)
- SAE J 2006 R2.

Suction and delivery of water and exhaust gas.

pleasure boats

exhaust gas



### BOATEX LO



- W.P. 3 bar (45 psi) B.P. 9 bar (135 psi)
- from 51 mm (2") to 102 mm (4")
- from -30°C (-22°F) to +80°C (+176°F)
- SAE J 2006 R2.

Suction and delivery of water and exhaust gas – hose with corrugated cover.

pleasure boats

exhaust gas



### SANITARY STAR



- W.P. 3 bar (45 psi) B.P. 9 bar (135 psi)
- from 16 mm (5/8") to 38 mm (1"1/2)
- from -30°C (-22°F) to +100°C (+212°F)
- EN ISO 8099.

Suction and delivery of water - completely odourless hose.

pleasure boats

sanitary connections

air conditioning systems



### DUBAI



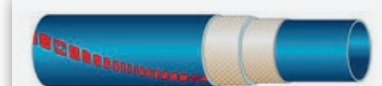
- W.P. 10 bar (150 psi) B.P. 30 bar (450 psi)
- from 16 mm (5/8") to 38 mm (1"1/2)
- from -40°C (-40°F) to +120°C (+248°F)

Delivery of water and hot water.

pleasure boats

sanitary connections

air conditioning systems



### NAVYSIL®



- W.P. 3 bar (45 psi) B.P. 9 bar (135 psi)
- from 25 mm (1") to 76 mm (3")
- from -50°C (-58°F) to +180°C (+356°F), with peaks up to +200°C (+392°F)
- SAE J 2006.

Delivery of hot air and water mixed with cooling liquids – silicone hose resistant to high temperatures and mineral oils.

pleasure boats

exhaust gas

cooling circuits



### NAVYSIL® LL



- W.P. 3 bar (45 psi) B.P. 9 bar (135 psi)
- from 25 mm (1") to 76 mm (3")
- from -50°C (-58°F) to +180°C (+356°F), with peaks up to +200°C (+392°F)
- SAE J 2006.

Suction and delivery of hot air and water mixed with cooling liquids – silicone hose resistant to high temperatures and mineral oils.

pleasure boats

exhaust gas

cooling circuits





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



**Since 1966 we have been producing rubber hoses** for industrial use. Our flexibility is the basis of our success: in terms of products, processes and people. A flexibility that helps us to be one step ahead, together with our customers, in a rapidly changing world.



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