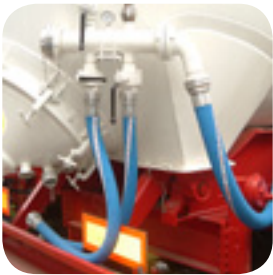
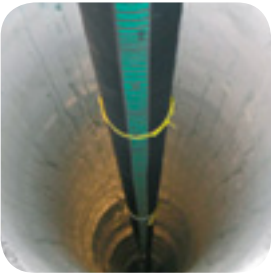


Flexible
solutions for
the industry.





Flexible solutions for the industry.

| | | |
|---|-----------------|---------------------|
|  | air | pag. 10 |
|  | water | pag. 10 |
|  | hot | pag. 12 |
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If you are interested in the latest version of the IVG catalogue, or want to download technical information please visit:
www.ivgspa.it





For nearly 50 years...

IVG Colbachini has been producing industrial rubber hoses to convey all sorts of fluid: liquids, gas, powders or granular.

Our systems and services are designed to fulfill the needs of various industries such as the oil & gas sector, food & chemical, agricultural, construction, rail, naval and steel industries

Experience, flexibility, production process and network represent our strongest points.

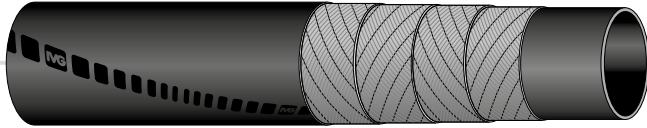
Thanks to both a vast experience on the field worldwide and an advanced industrial organization, IVG is able to offer not only the widest range of standard products on the market, but also to develop and personalize the hoses according to each customer's request.

Our rubber hoses, produced on rigid mandrel, can reach continuous lengths up to 120 meters (400ft) and can be fitted with any type of coupling.

IVG's quality system is ISO 9001 certified. The internal quality assurance tests that are carried out according to the main international specifications, guarantee our products to meet or exceed all the standards for which they are designed.

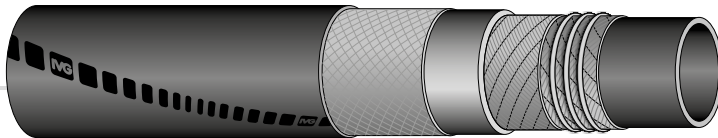


Different types of hose structure



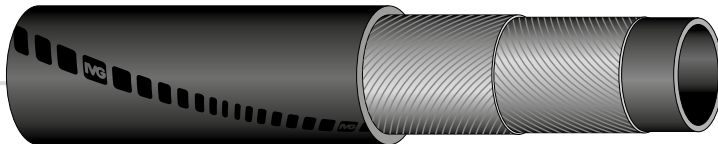
Softwall hose.

Construction: rubber tube, plies of synthetic cord, rubber cover.



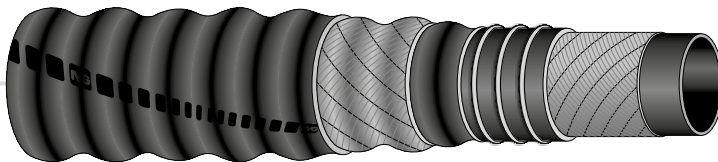
Hardwall: wire reinforced hose, smooth cover.

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



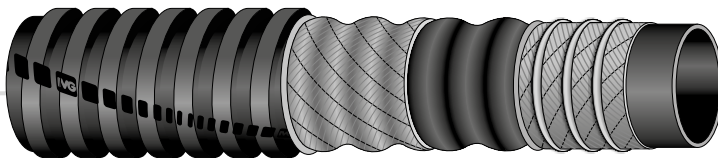
Steel cord.

Construction: rubber tube, plies of steel wire cord, rubber cover.



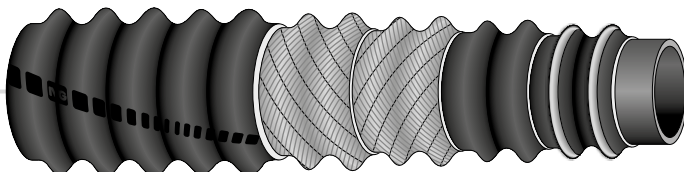
Hardwall: wire reinforced hose, corrugated cover.

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



Hardwall: wire reinforced hose, square corrugated cover.

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



Hardwall: wire reinforced corrugated tube and cover.

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

Characteristics of an IVG mandrel built rubber hose.

IVG hoses are built on rigid mandrels and designed for low and medium pressures.

| Hose types | from I.D. | | up to I.D. | | maximum continuous lengths (*) | |
|--|------------------|----------------------------|-------------------|-----------------------|--------------------------------|------------------|
| | mm | inch | mm | inch | m | ft |
| Softwall | 10 153 255 | 25/64 6-1/32 10-3/64 | 152 254 650 | 6 10 25-19/32 | 120 60 12 | 400 200 40 |
| Hardwall | 13 103 204 | 1/2 4-1/16 8-1/32 | 102 203 500 | 4 8 19-43/64 | 120 60 12 | 400 200 40 |
| Steel cord | 13 81 153 | 1/2 3-3/16 6-1/32 | 80 152 590 | 3-5/32 6 23-1/4 | 120 60 12 | 400 200 40 |
| Hardwall corrugated cover | 13 204 | 1/2 8-1/32 | 203 650 | 8 25-19/32 | 60 12 | 200 40 |

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

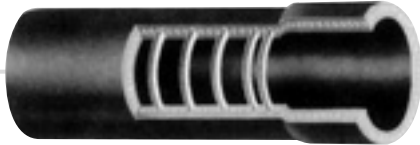


Different types of end styles available



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.

Hose marking systems

IVG offers their clients the possibility of identifying a hose with a colored transfer, embossed stripe either neutral or colored, labels, dymo.

Packaging

In order to protect the hoses IVG uses a standard P.E. film in coils and special packaging depending on the type of product and shipment.

Different types of fitting styles available

IVG Fittings Division is a flexible and versatile unit that works in synergy with IVG's R&D and can offer complex and integrated services.

The workshop includes:

- swaging machines from 19 mm (1/2") 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 also be supplied with all the necessary accessories (collars, clamps, etc.) to be fitted by the customers.



Swaged fitting.

This fitting system consists of 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 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.

This method of joining hose produces a flexible, rubber-to-rubber seal of great strength. To join two hoses, their flanges are aligned without twisting the hose, bolts are inserted and drawn tight; this compresses the soft rubber hose ends together, making a leakproof seal; no gasket is required.




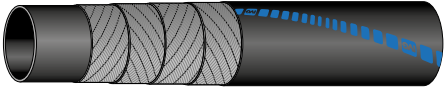

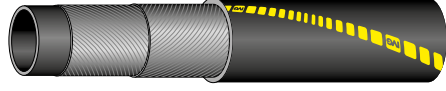
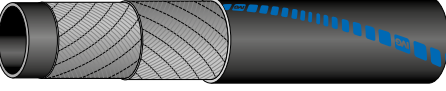

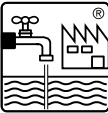
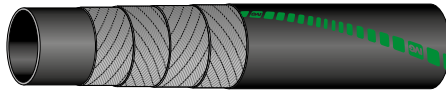
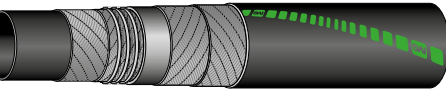
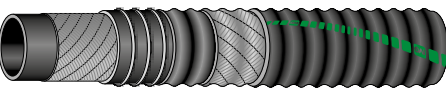

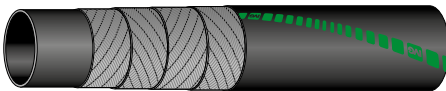


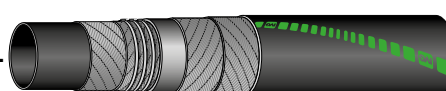

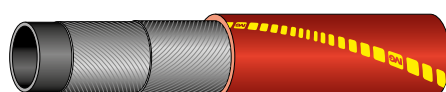
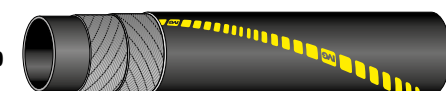
Band type fitting.

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 method is necessary.



Fitting with bolted clamps.

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

| family | product | application/specification | w.p. - b.p. |
|---|---|---|-------------------------------------|
| air  | montana  | Compressed air delivery. | 20 bar - 60 bar 27 bar - 81 bar |
| | alaska  | Compressed air delivery - steel wire hose. | 30 bar - 90 bar 70 bar - 210 bar |
| | mastino  | Compressed air delivery - heavy duty steel wire hose. | 30 bar - 90 bar 70 bar - 210 bar |
| | airhellas  | Compressed air delivery - insulating rubber compound. | 12 bar - 36 bar |
| | fras  | Compressed air and water delivery for mines. <i>AS 2660 class B.</i> | 17,5 bar - 70 bar |
| water  | montreal  | Water delivery. | 10 bar - 30 bar 20 bar - 60 bar |
| | toronto  | Water suction and delivery. | 10 bar - 30 bar |
| | amburgo  | Water suction and delivery. | 3 bar - 9 bar |
| | oslo  | Water delivery - lay flat hose. | 5 bar - 15 bar 18 bar - 54 bar |
| | davis  | Agricultural spraying. | 75 bar - 225 bar |
| | nairobi  | Water delivery - structure for special uses. | 10 bar - 30 bar |
| | durana  | Water delivery - structure for special uses. | 10 bar - 40 bar |
| | durana LL  | Water suction and delivery - structure for special uses. | 10 bar - 40 bar |
| | snow gun  | Artificial snow. | 40 bar - 120 bar |
| | snow gun steel  | Artificial snow - steel wire hose. | 80 bar - 240 bar |
| | fish pump  | Fish transfer - lay flat hose. | 3 bar - 9 bar |


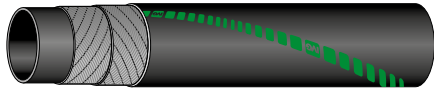
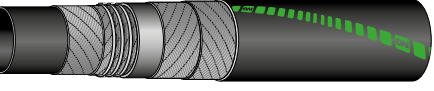
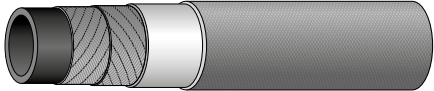
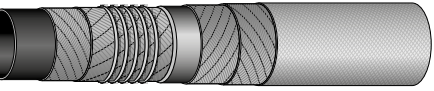
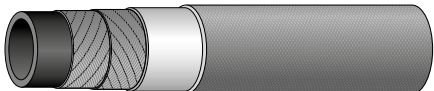
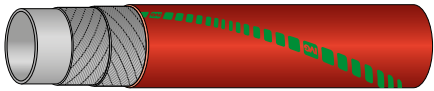
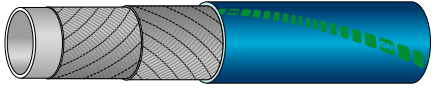
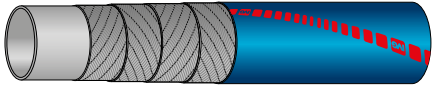

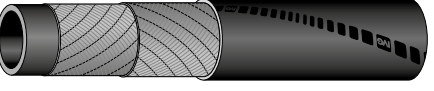
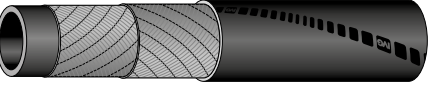

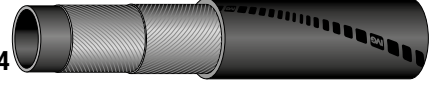


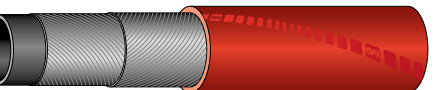
couplings

temperature

| acc. fire fighting spec. | acc. spec. DIN 2826 | anfor type | bauer | cardan perrot | express | flange | geka | giroexp | guillemin | italian type | kamlöking | kamlöking DIN 2828 | rapid | steam line | storz | threaded |
|--------------------------|---------------------|------------|-------|---------------|---------|--------|------|---------|-----------|--------------|-----------|--------------------|-------|------------|-------|----------|
|--------------------------|---------------------|------------|-------|---------------|---------|--------|------|---------|-----------|--------------|-----------|--------------------|-------|------------|-------|----------|

| | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|---|---|
| -30°C +70°C | | | | | • | | | • | | | | | • | | | • | |
| -30°C +70°C | | | | | | • | | • | | | | | | | | • | |
| -30°C +120°C | | | | | | • | | • | | | | | | | | • | |
| -30°C +80°C | | | | | | | | | | | | | | | | | |
| -15°C +70°C | | | | | | | | | | | | | | | | | |
| -35°C +70°C | • | | | | • | • | • | • | • | | • | • | | | | • | • |
| -30°C +70°C | • | • | • | • | | • | | | • | • | | | | | | • | |
| -30°C +70°C | • | | • | • | | | | | • | • | | | | | | • | |
| -25°C +70°C | • | • | • | • | | • | | | | • | • | | | | | • | • |
| -25°C +70°C | | | | | | | | | | | | | | | | | • |
| -30°C +70°C | | | | | • | | • | | | | • | • | | | | • | • |
| -30°C +70°C | | | | | | • | | | | | | | | | | • | • |
| -30°C +70°C | | | | | | • | | | | | | | | | | • | • |
| -40°C +60°C | | | | | | | | | | | | | | | | | • |
| -40°C +60°C | | | | | | | | | | | | | | | | | • |
| -25°C +70°C | | | | | | | | | | | | | | | | | |



| family | product | application/specification | w.p. - b.p. |
|--|---|---|------------------|
| hot  | max  | Hot water delivery. | 10 bar - 30 bar |
| | houston  | Hot water suction and delivery. | 10 bar - 30 bar |
| | essen  | Cooling water delivery - fibre glass cover. | 10 bar - 30 bar |
| | essen LL  | Cooling water suction and delivery - fibre glass cover. | 10 bar - 30 bar |
| | cleveland  | Cooling water delivery - Nomex® fibre cover. | 10 bar - 30 bar |
| | multiplus  | Hot water delivery. | 10 bar - 30 bar |
| | michigan  | Hot water delivery. | 10 bar - 30 bar |
| | foodland®  | Hot water delivery (10 bar W.P. 30 bar B.P) and steam (6 bar W.P. 60 bar B.P.). | 10 bar - 30 bar |
| steam  | manitoba  | Steam at 165°C. | 6 bar - 60 bar |
| | manitoba EN ISO 6134  | Steam at 165°C. EN ISO 6134/05 type 1 class A. | 6 bar - 60 bar |
| | victoria  | Steam at 210°C - steel wire hose. | 18 bar - 180 bar |
| | victoria EN ISO 6134  | Steam at 210°C - steel wire hose. EN ISO 6134/05 TYPE 2 class A (Ω). | 18 bar - 180 bar |
| | vapofer  | Steam at 210°C - steel wire hose. EN ISO 6134/05 type 2 class B (Ω). | 18 bar - 180 bar |
| | victoria LL  | Steam at 210°C - hardwall steel wire hose. | 18 bar - 180 bar |
| | victoria premium  | Steam at 210°C - steel wire hose, IIR tube. | 18 bar - 180 bar |



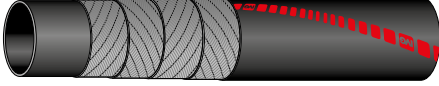





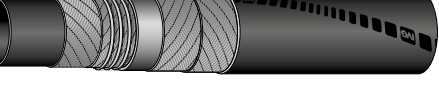



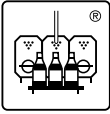





couplings

temperature

| acc. spec. DIN 2826 | flange | kamlokking | kamlokking DIN 2828 | steam line | threaded |
|---------------------|--------|------------|---------------------|------------|----------|
|---------------------|--------|------------|---------------------|------------|----------|

| | | | | | |
|--|---|---|---|---|---|
| -40°C +120°C | | ● | ● | ● | ● |
| -40°C +120°C | | ● | ● | ● | ● |
| -40°C +120°C fiber glass cover up to +530°C | | ● | ● | ● | ● |
| -40°C +120°C fiber glass cover up to +530°C | | ● | ● | ● | ● |
| -40°C +120°C nomex® cover up to +300°C | | | | | ● |
| -25°C +120°C | | | | | ● |
| -40°C +80°C | | ● | ● | ● | ● |
| -30°C +95°C | | | | | |
| -40°C +165°C | ● | | | | ● |
| -40°C +165°C | ● | | | | ● |
| -40°C +210°C | ● | | | | ● |
| -40°C +210°C | ● | | | | ● |
| -40°C +210°C | ● | | | | ● |
| -40°C +210°C | ● | | | | ● |
| -40°C +210°C | ● | | | | ● |



| family | product | application/specification | w.p. - b.p. |
|---|--|---|---------------------------------|
| fire  | chicago EN 1947  | Fire fighting fluids. <i>EN 1947 type C, class 1, category 2.</i> | 40 bar - 120 bar |
| | chicago ASTM  | Fire fighting fluids. <i>ASTM C-542</i> | 40 bar - 120 bar |
| | chicago BS 3169  | Fire fighting fluids. <i>BS 3169/86 class A, type 2.</i> | 40 bar - 120 bar |
| | chicago glow EN 1947  | Fire fighting fluids - good visibility fully luminescent hose. <i>EN 1947 type C, class 1, category 2.</i> | 40 bar - 120 bar |
| auto  | york  | Hot water mixed with anti-freeze liquids delivery. | 3 bar - 9 bar |
| | derby  | Hot water mixed with anti-freeze liquids delivery. <i>DIN 73411:79.</i> | 2 bar - 6 bar 4 bar - 12 bar |
| | radiator light  | Hot water mixed with anti-freeze liquids suction and delivery. | 4 bar - 12 bar |
| | radiator LCL  | Hot water mixed with anti-freeze liquids suction and delivery - oil resistant. | 4 bar - 12 bar |
| | silcar  | High temperature air and water mixed with anti-freeze liquids delivery - silicon hose. | 3 bar - 9 bar |
| | silcar LL  | High temperature air and water mixed with anti-freeze liquids suction and delivery - silicon hose. | 3 bar - 9 bar |
| food  | merlot  | Non fatty food liquids delivery. <i>FDA tit.21 art.177.2600 for aqueous and fatty foods. BfR XXI cat.2 for foods. D.M. 21/03/73 for aqueous foods and alcohols at 72°. Reg. EU CE 1935/04 and CE 2023/06.</i> | 10 bar - 30 bar |
| | parry  | Non fatty food liquids suction and delivery. <i>FDA tit.21 art.177.2600 for aqueous and fatty foods. BfR XXI cat.2 for foods. D.M. 21/03/73 for aqueous foods and alcohols at 72°. Reg. EU CE 1935/04 and CE 2023/06.</i> | 10 bar - 30 bar |
| | vinoflex easy  | Non fatty food liquids suction and delivery - thermoplastic cover - EASYSHELL SYSTEM. <i>FDA tit.21 art.177.2600 for aqueous foods. BfR XXI cat.2 for foods. D.M. 21/03/73 for aqueous foods and alcohols to 96°. Reg. EU CE 1935/04 and CE 2023/06.</i> | 10 bar - 30 bar |
| | scotland  | Non fatty food liquids delivery - premium hose. <i>FDA tit.21 art.177.2600 for aqueous foods. BfR XXI cat.2 for foods. D.M. 21/03/73 for aqueous foods and alcohols to 96°. Reg. EU CE 1935/04 and CE 2023/06.</i> | 10 bar - 30 bar |
| | scotland LL  | Non fatty food liquids suction and delivery - premium hose <i>FDA tit.21 art.177.2600 for aqueous foods. BfR XXI cat.2 for foods. D.M. 21/03/73 for aqueous foods and alcohols to 96°. Reg. EU CE 1935/04 and CE 2023/06.</i> | 10 bar - 30 bar |

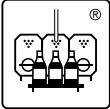
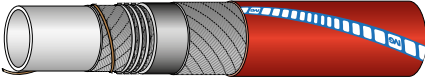
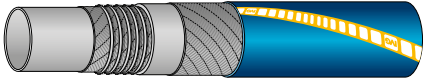
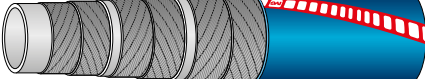

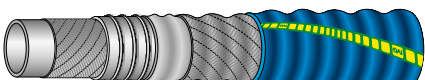




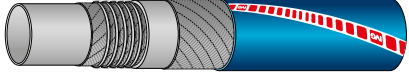
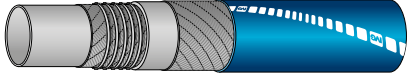
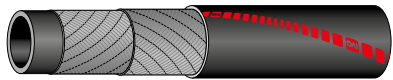
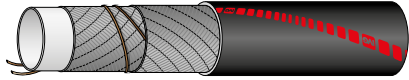
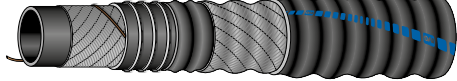
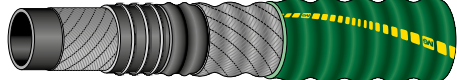
couplings

temperature

| clamp | din 11851 | garolla | guillemin | storz | threaded | easysnell system |
|-------|-----------|---------|-----------|-------|----------|------------------|
|-------|-----------|---------|-----------|-------|----------|------------------|

| | | | | | | |
|-----------------------------------|---|---|---|--|---|---|
| -40°C +100°C | | | | | ● | |
| -40°C +70°C | | | | | ● | |
| -40°C +70°C | | | | | ● | |
| -40°C +100°C | | | | | ● | |
| -40°C +100°C | | | | | | |
| -40°C +120°C | | | | | | |
| -40°C +120°C | | | | | | |
| -40°C +100°C | | | | | | |
| -50°C +180°C peaks up to 200°C | | | | | | |
| -50°C +180°C peaks up to 200°C | | | | | | |
| -35°C +70°C | ● | ● | ● | | ● | |
| -35°C +70°C | ● | ● | ● | | ● | |
| -40°C +120°C | ● | ● | ● | | ● | ● |
| -40°C +120°C | ● | ● | | | | |
| -40°C +120°C | ● | ● | | | | |



| family | product | application/specification | w.p. - b.p. |
|--|--|---|----------------------------------|
| food  | shetland  | Alcohols suction and delivery - premium hose. <i>FDA title 21, item 187.1520 - BfR XXI cat.2.</i> | 10 bar - 30 bar |
| | milkservice LL  | Milk and dairy products suction and delivery. <i>FDA tit.21, item 177.2600 for aqueous and fatty foods. BfR XXI cat.2 for foods. Reg. EU CE 1935/04 and CE 2023/06.</i> | 10 bar - 30 bar |
| | panama  | Fatty foods delivery. <i>FDA tit.21 art.177.2600 for aqueous foods. D.M. 21/03/73 for aqueous foods. Reg. EU CE 1935/04 and CE 2023/06.</i> | 10 bar - 30 bar |
| | acapulco  | Fatty foods suction and delivery. <i>FDA tit.21 art.177.2600 for aqueous foods. D.M. 21/03/73 for aqueous foods. Reg. EU CE 1935/04 and CE 2023/06.</i> | 10 bar - 30 bar |
| | oilmill easy  | Olive oil suction and delivery - EASYSHELL SYSTEM. <i>FDA tit.21 art.177.2600 for fatty foods. D.M. 21/03/73 for fatty foods. Reg. EU CE 1935/04 and CE 2023/06.</i> | 10 bar - 30 bar |
| | acquablu  | Potable water delivery. <i>FDA title 21, item 17.1520 - BfR XXI cat.2. - D.M. 174 of 06/04/04 - WRAS approved acc. BS 6920 and AZ/NS 4020 - acc. KTW-C - tested TZW acc. DVGWW270.</i> | 20 bar - 60 bar |
| truck  | sahara bn 180°C  | Hot air from compressor to tank. | 10 bar - 30 bar |
| | sahara bn 240°C  | Hot air from compressor to tank. | 10 bar - 30 bar |
| | sahara LL bd 180°C  | Hot air from compressor to tank. | 10 bar - 30 bar |
| | sahara LL bd 240°C  | Hot air from compressor to tank. | 10 bar - 30 bar |
| | don  | Dry abrasive materials delivery. | 5 bar - 15 bar 6 bar - 18 bar |
| | don bn  | Dry abrasive materials delivery - white tube. | 6 bar - 18 bar |
| | caracas cold  | Tank truck fuels suction and delivery - low temperatures. | 10 bar - 30 bar |
| | caracas easy  | Tank truck fuels suction and delivery - EASYSHELL SYSTEM. | 4 bar - 12 bar 6 bar - 18 bar |


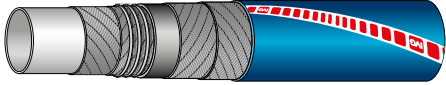
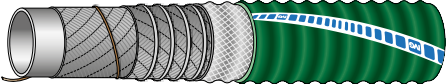


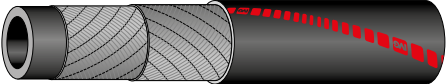

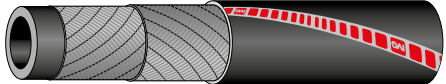

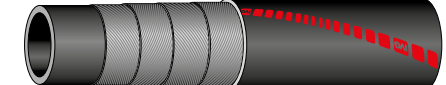
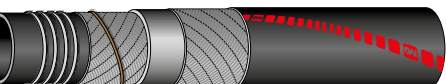
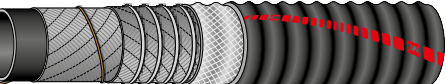


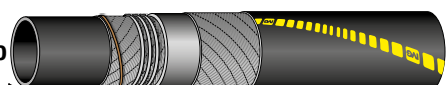



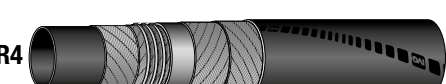
couplings

temperature

| clamp | din 11851 | garolla | guillemín | storz | threaded | flange | fuel DIN 2817 | fuel italian type | fuel TW | easyshell system |
|-------|-----------|---------|-----------|-------|----------|--------|---------------|-------------------|---------|------------------|
|-------|-----------|---------|-----------|-------|----------|--------|---------------|-------------------|---------|------------------|

| | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|
| -30°C +80°C | ● | ● | | | | | | | | |
| -40°C +120°C | ● | ● | | | | | | | | |
| -15°C +90°C | ● | ● | | | | | | | | |
| -15°C +90°C | ● | ● | | | | | | | | |
| -25°C +100°C | ● | ● | | | ● | | | | | ● |
| -30°C +60°C | ● | ● | | | ● | | | | | |
| -40°C +180°C | | | ● | ● | | | | | | |
| -40°C +200°C peaks up to 240°C | | | ● | ● | | | | | | |
| -40°C +180°C | | | ● | ● | | | | | | |
| -40°C +200°C peaks up to 240°C | | | ● | ● | | | | | | |
| -40°C +70°C | | | ● | ● | ● | | | | | |
| -30°C +70°C | | | ● | ● | ● | | | | | |
| -50°C +25°C | | | | | | ● | ● | ● | | |
| -20°C +70°C | | | | | | ● | ● | ● | ● | |



| family | product | application/specification | w.p. - b.p. |
|--|---|---|------------------|
| truck  | foodflex® IIR  | Milk suction and delivery from tank truck. <i>FDA tit.21, item 177.2600 for aqueous foods. BfR XXI cat.2 for foods - D.M. 21/03/73 for aqueous foods and alcohols to 96°. Reg. EU CE 1935/04 and CE 2023/06.</i> | 6 bar - 18 bar |
| | supertop LO bv  | Multipurpose chemical suction and delivery - cross-linked polyethylene tube. | 10 bar - 40 bar |
| | pippurn  | Abrasive materials suction. | 3 bar - 9 bar |
| abr  | orinoco  | Sand blast delivery. <i>DIN 53516: 70+/-5mm³.</i> | 10 bar - 30 bar |
| | niagara  | Plaster delivery <i>DIN 53516: 70 +/- 5mm³.</i> | 40 bar - 120 bar |
| | dry ice  | Dry ice blasting delivery. | 10 bar - 40 bar |
| | vibrator CM  | Concrete vibrator. | 15 bar - 45 bar |
| | shannon 80  | Concrete placement. | 80 bar - 200 bar |
| | volga  | Bulk materials suction and delivery. <i>DIN 53516: 70 +/- 5mm³.</i> | 10 bar - 30 bar |
| | volga fra  | Bulk materials suction and delivery VOLGAFRA SYSTEM. | 10 bar - 30 bar |
| oil  | australia  | Fuel and oil delivery. | 10 bar - 30 bar |
| | puertorico  | Fuel and oil suction and delivery. | 10 bar - 30 bar |
| | genova global  | Fuel and oil delivery. <i>EN 12115, EN 1761, ISO 2929, TRbF.</i> | 16 bar - 64 bar |
| | genova global LL  | Fuel and oil suction and delivery. <i>EN 12115, EN 1761, ISO 2929, TRbF, ATEX.</i> | 16 bar - 64 bar |
| | avio global C  | Aircraft refuelling, type C. <i>BS EN ISO 1825, API 1529, AS 2683, VG 95955, NFPA 407.</i> | 20 bar - 80 bar |
| | SAE/100/R4  | Hydraulic oil suction and delivery. <i>SAE J517, SAE 100 R4.</i> | acc. SAE/100/R4 |


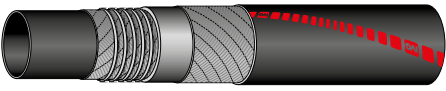
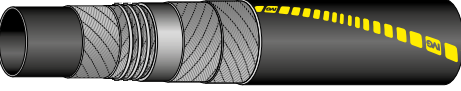
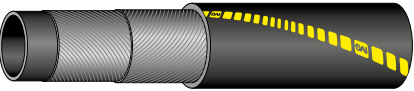


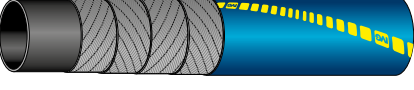
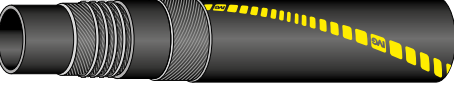


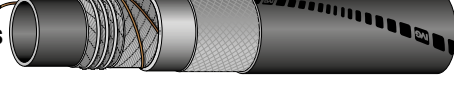

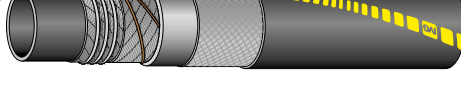
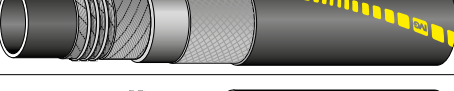





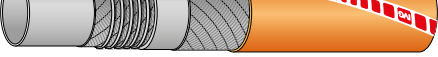
couplings

temperature

| flange | fuel DIN 2817 | fuel italian typeoffice | fuel TW | kamlökling | kamlökling DIN 2828 | plaster | plaster cardan perrot | plaster pump coupling | sand blasting | threaded | volgafra | clamp | din 11851 | guillemin | storz |
|--------|---------------|-------------------------|---------|------------|---------------------|---------|-----------------------|-----------------------|---------------|----------|----------|-------|-----------|-----------|-------|
|--------|---------------|-------------------------|---------|------------|---------------------|---------|-----------------------|-----------------------|---------------|----------|----------|-------|-----------|-----------|-------|

| | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| -40°C +120°C | | | | | | | | | | | | • | • | | |
| -20°C +70°C | | | | • | • | | | | | • | | | | • | |
| -30°C +70°C | | | | | | | | | | | | | • | • | |
| -40°C +70°C | | | | | | • | • | • | • | | | | | | |
| -40°C +70°C | | | | | | • | • | • | | • | | | | | |
| -55°C +130°C | | | | | | | | | | • | | | | | |
| -10°C +70°C | | | | | | | | | | | | | | | |
| -40°C +70°C | | | | | | | | • | | • | | | | | |
| -30°C +70°C | • | | | | | | | • | | | | | | | |
| -40°C +70°C | • | | | | | | | | | | • | | | | |
| -20°C +70°C | • | • | • | • | • | • | | | | • | | | | | |
| -20°C +70°C | • | • | • | • | • | • | | | | • | | | | | |
| -20°C +70°C | • | • | • | • | • | • | | | | • | | | | | |
| -20°C +70°C | • | • | • | • | • | • | | | | • | | | | | |
| -25°C +70°C | | • | | • | • | | | | | | | | | | |
| -40°C +100°C | • | | | | | | | | | • | | | | | |



| family | product | application/specification | w.p. - b.p. |
|---|---|--|------------------|
| oil  | tallinn  | Hydraulic oil suction and delivery. <i>Rubber compounds acc. to SAE J517 and SAE 100 R4.</i> | 5 bar - 15 bar |
| | malmo  | Hydraulic oil suction and delivery. | 10 bar - 30 bar |
| | LPG/CM/EN 1762:1997/D  | Gas delivery - steel wire hose. <i>EN 1762:1997.</i> | 25 bar - 100 bar |
| | LPG/CORD/EN 1762:2003/D  | Gas delivery. <i>EN 1762:2003.</i> | 25 bar - 100 bar |
| | ivalo  | Oil suction and delivery. | 5 bar - 15 bar |
| | compressor  | Hydraulic oil delivery. <i>Cover according to MSHA.</i> | 40 bar - 120 bar |
| | seven  | Asphalt and tar - hardwall steel wire hose. <i>EN 13482:2001.</i> | 15 bar - 90 bar |
| onshore  | martin  | Tank cleaning. | 20 bar - 60 bar |
| | bahamas  | Floating roof drainage. | 5 bar - 20 bar |
| | marshall  | Dock oil delivery. <i>EN 1765 type L 15, BS 1435 type L 15.</i> | 15 bar - 60 bar |
| | transoil  | Dock oil suction and delivery. <i>EN 1765 type S 15 - BS 1435 type S 15 - RINA approved n. MAC128208CS/001.</i> | 15 bar - 60 bar |
| | filicudi  | Ship to ship oil suction and delivery. <i>EN 1765 type S 15 - BS 1435 type S 15 - RINA approved n. MAC093711CS.</i> | 15 bar - 60 bar |
| offshore  | pl fuel  | Drilling mud and oil delivery. | 17 bar - 51 bar |
| | pl fuel LL  | Drilling mud and oil suction and delivery. | 17 bar - 51 bar |
| | pl fuel LL float  | Drilling mud and oil suction and delivery - floating hose. | 20 bar - 60 bar |
| | pl potable  | Potable water delivery. <i>FDA tit.21, item 177.2600 for aqueous foods. BfR XXI cat.2 for foods. Reg. EU CE 1935/04 and CE 2023/06.</i> | 20 bar - 60 bar |
| | pl potable LL  | Potable water suction and delivery. <i>FDA tit.21, item 177.2600 for aqueous foods. BfR XXI cat.2 for foods. Reg. EU CE 1935/04 and CE 2023/06.</i> | 17 bar - 51 bar |



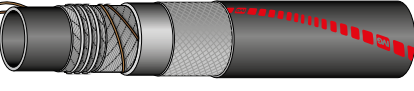
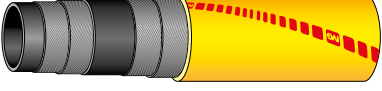

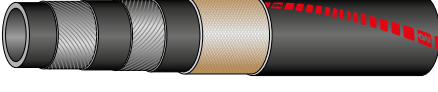

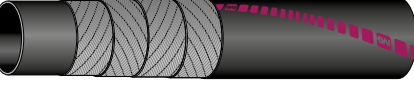
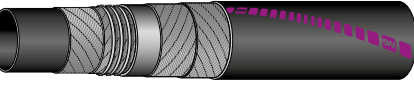

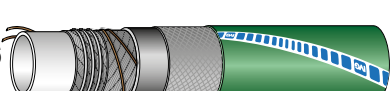
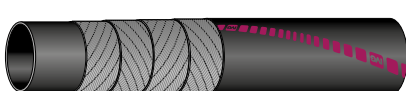

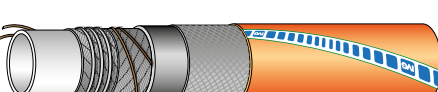
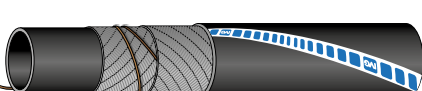



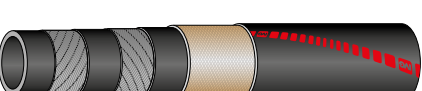
temperature

couplings

| flange | fuel DIN 2817 | fuel italian typeoffice | fuel TW | kamlöking | kamlöking DIN 2828 | plaster | plaster cardan perrot | plaster pump coupling | sand blasting | threaded | tank cleaning couplings |
|--------|---------------|-------------------------|---------|-----------|--------------------|---------|-----------------------|-----------------------|---------------|----------|-------------------------|
|--------|---------------|-------------------------|---------|-----------|--------------------|---------|-----------------------|-----------------------|---------------|----------|-------------------------|

| | | | | | | | | | | | |
|--------------|---|--|--|--|---|--|--|--|--|---|---|
| -40°C +100°C | | | | | | | | | | ● | |
| -20°C +100°C | ● | | | | ● | | | | | | ● |
| -30°C +100°C | ● | | | | | | | | | ● | |
| -30°C +100°C | ● | | | | | | | | | ● | |
| -30°C +120°C | ● | | | | | | | | | ● | |
| -30°C +130°C | | | | | | | | | | ● | |
| -15°C +200°C | ● | | | | | | | | | ● | |
| -30°C +100°C | | | | | | | | | | | ● |
| -25°C +80°C | ● | | | | | | | | | | |
| -20°C +82°C | ● | | | | | | | | | ● | |
| -20°C +82°C | ● | | | | | | | | | ● | |
| -20°C +82°C | ● | | | | | | | | | ● | |
| -20°C +90°C | ● | | | | | | | | | ● | |
| -20°C +90°C | ● | | | | | | | | | ● | |
| -20°C +90°C | ● | | | | | | | | | ● | |
| -40°C +100°C | ● | | | | | | | | | ● | |
| -40°C +100°C | ● | | | | | | | | | ● | |



| family | product | application/specification | w.p. - b.p. |
|---|--|---|------------------|
| offshore  | pl abrasive  | Abrasive material delivery. | 10 bar - 40 bar |
| | pl abrasive LL  | Abrasive material suction and delivery. | 10 bar - 40 bar |
| | pl grout  | Liquid mud delivery. | 70 bar - 210 bar |
| | pl mud  | Drilling mud delivery. | 35 bar - 140 bar |
| | pl splitfire  | Fire protection in offshore applications. <i>EN ISO 15540:99. Fire resistance at 800° for 30'.</i> | 25 bar - 100 bar |
| chem  | orlando/16 EN 12115  | Chemicals delivery - EPDM quality hose, EPR quality available upon request. <i>EN 12115.</i> | 16 bar - 64 bar |
| | everest/16 EN 12115  | Chemical suction and delivery - EPDM quality hose, EPR quality available upon request. <i>EN 12115.</i> | 16 bar - 64 bar |
| | supertop/16 UHMWPE/EN 12115  | Multipurpose delivery - UHMWPE tube, XLPE tube available upon request. <i>EN 12115 - Tube FDA title 21, item 177.1520.</i> | 16 bar - 64 bar |
| | supertop LL/16 UHMWPE/EN 12115  | Multipurpose suction and delivery - UHMWPE tube, XLPE tube available upon request. <i>EN 12115 - Tube FDA title 21, item 177.1520.</i> | 16 bar - 64 bar |
| | real  | Chemicals delivery - Viton® tube. | 10 bar - 40 bar |
| | providence  | Chemicals suction and delivery - Viton® tube. | 10 bar - 40 bar |
| | teflex EN 12115  | Multipurpose chemicals suction and delivery - FEP tube (Teflon®). <i>EN 12115 - Tube USP Class VI and FDA title 21 item 177.1550.</i> | 16 bar - 64 bar |
| | vernici XLPE  | Varnish delivery - cross-linked polyethylene tube. | 10 bar - 40 bar |
| cable  | cable  | Cable covering. | --- |
| | coolcable  | Cable cooling - insulating hose. | 10 bar - 30 bar |
| | coolingflex  | High voltage cable protection and cooling for electric arc furnaces. | 6 bar - 30 bar |

couplings

temperature

| flange | fuel DIN 2817 | kamlocking | kamlocking DIN 2828 | threaded | clamp |
|--------|---------------|------------|---------------------|----------|-------|
|--------|---------------|------------|---------------------|----------|-------|

| | | | | | | |
|--------------|---|---|---|---|---|---|
| -25°C +70°C | ● | | | | ● | |
| -25°C +70°C | ● | | | | ● | |
| -10°C +42°C | ● | | | | ● | |
| -25°C +70°C | ● | | | | ● | |
| -30°C +70°C | | | | | ● | |
| -40°C +100°C | ● | ● | ● | ● | ● | |
| -40°C +100°C | ● | ● | ● | ● | ● | |
| -30°C +100°C | ● | ● | ● | ● | ● | ● |
| -30°C +100°C | ● | ● | ● | ● | ● | ● |
| -25°C +100°C | ● | | | | ● | |
| -25°C +100°C | ● | | | | ● | |
| -40°C +150°C | ● | | ● | | ● | ● |
| -20°C +70°C | | | | | ● | |
| -30°C +80°C | | | | | | |
| -30°C +80°C | | | | | | |
| -40°C +80°C | | | | | | |



boat

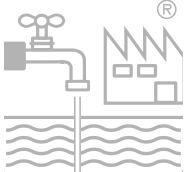
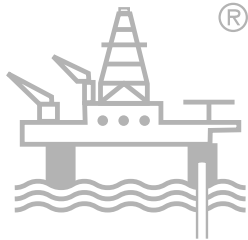


| | | | |
|-------------------------------|--|--|-----------------|
| poseidon | | Fuel delivery, used in pleasure boats - fire resistant. <i>Eur. Dir. 94/25/CE ISO 7840:04 A1, R.I.NA approved. SAE J 1527:04. USCG Type A1 Style R1.</i> | 10 bar - 30 bar |
| poseidon LL | | Fuel suction and delivery used in pleasure boats - fire resistant. <i>Eur. Dir. 94/25/CE ISO 7840:04 A1, R.I.NA approved. SAE J 1527:04. USCG Type A1 Style R2.</i> | 10 bar - 30 bar |
| fuel fill low emission | | Fuel suction and delivery according to E.P.A. specifications (USA). <i>SAE J 1527:04. USCG Type A1 Style R2 ISO 7840:04 A1.</i> | 5 bar - 15 bar |
| amalfi cord | | Marine wet exhaust gas. <i>ISO 13363:04 type 1B. SAE J 2006:03 type R1. R.I.NA. and Lloyd's approved.</i> | b.p. 2.5 bar |
| amalfi LL | | Marine wet exhaust gas. <i>ISO 13363:04 type 2B. SAE J 2006:03 type R2. R.I.NA. and Lloyd's approved.</i> | b.p. 2.5 bar |
| amalfi LO | | Marine wet exhaust gas. <i>ISO 13363:04 type 2B. SAE J 2006:03 Type R2. R.I.NA. and Lloyd's approved.</i> | b.p. 2.5 bar |
| etna | | Marine wet exhaust gas. <i>Nordic Boat Standard MC9 with homologation VTT. Lloyd's Register LR Rules and Regulations for special service craft.</i> | b.p. 5 bar |
| boatex | | Water and wet exhaust delivery. <i>SAE J 2006 R1.</i> | 3 bar - 9 bar |
| boatex LL | | Water and wet exhaust suction and delivery. <i>SAE J 2006 R2.</i> | 3 bar - 9 bar |
| boatex lo | | Water and wet exhaust suction and delivery. <i>SAE J 2006 R2.</i> | 3 bar - 9 bar |
| sanitary star | | Pleasure boat sanitary hose. <i>EN ISO 8099.</i> | 3 bar - 9 bar |
| navysil | | High temperature air and water delivery. <i>ASTM C 542.</i> | 3 bar - 9 bar |
| navysil LL | | High temperature air and water suction and delivery. <i>ASTM C 542.</i> | 3 bar - 9 bar |
| navysil LO | | High temperature air, water and wet exhaust suction and delivery. <i>ASTM C 542.</i> | b.p. 3 bar |

temperature

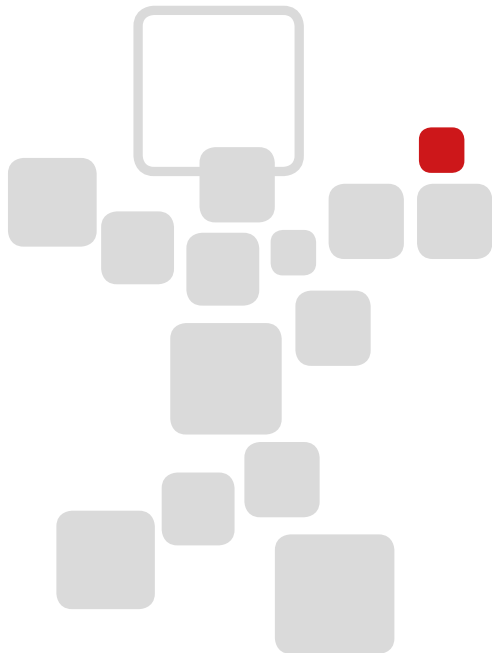
| |
|-----------------------------------|
| -30°C +100°C |
| -30°C +100°C |
| -20°C +80°C |
| -30°C +100°C |
| -30°C +100°C |
| -30°C +100°C |
| -30°C +100°C |
| -30°C +80°C |
| -30°C +80°C |
| -30°C +80°C |
| -30°C +100°C |
| -50°C +180°C peaks up to 200°C |
| -50°C +180°C peaks up to 200°C |
| -50°C +180°C peaks up to 200°C |





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if it concerns rubber hose, it concerns us

HEADQUARTERS

IVG Colbachini S.p.A.

Via Fossona 132
35030 Cervarese S. Croce
Padova - Italy
T. +39 049 9997311
F. +39 049 9915088
marketing@ivgspa.it
www.ivgspa.it

IVG Europe S.A.

Z.A.E. de la Grande Couture
Rue de la Malmaison, 32
95505 Gonesse - Cedex - France
T. +33 1 39873987
F. +33 1 39870757
market1@ivgspa.it
contact@ivg-europe-sa.fr
www.ivg-europe.fr

IVG Colbachini GmbH

Reute, 8
72365 Ratshausen - Germany
T. +49 0 7427 914 688
F. +49 0 7427 914 645
market2@ivgspa.it
vertrieb@ivgspa.de

IVG Colbachini CZ s.r.o.

Červený Dvůr 1126/29
794 01 Krnov - Czech Republic
T. +420 554637000
F. +420 554637035
market4@ivgspa.it
arybalko@ivgcz.cz

IVG Rubber Ltd.

8 Anvil Close - Gedney Dyke,
Spalding
Lincolnshire PE12 0BG - UK
T. +44 1406 366 894
F. +44 1406 366 867
market2@ivgspa.it
ivguk@btconnect.com

IVG USA LLC

1800 West Loop South, Suite 1120
Houston TX 77027 - U.S.A.
Toll free tel.: +1 888 IVG HOSE
Toll free fax: +1 877 621 5452
market1@ivgspa.it
info@ivgusa.com
www.ivgusa.com

IVG Colbachini S.p.A.

Representative Office Asia

Singapore
T. +65 6640 3489
F. +65 6640 3479
market3@ivgspa.it
br.lu@ivgspa.it



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