VISIFLON
Convoluted PTFE Lined Flexible Hose

TEMPERATURE RESISTANT
CHEMICAL RESISTANT
VERY FLEXIBLE
## CONTENTS

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PTFE, or Polytetrafluoroethylene, comprises of long-chain molecules of carbon atoms, each linked to two fluorine atoms.

The fluorine atoms provide a helical spiral which surrounds the carbon chain and protects it.

It is this structure which creates the unique properties for which PTFE is well-known.

- **Excellent Chemical Resistance**
  
  PTFE is renowned as the most chemically resistant material known. Only a very few, very unusual substances and conditions can affect it, like Fluorine gas at high temperature and pressure and liquid, boiling sodium metal.

  PTFE lined hoses can therefore be used for a wider variety of chemicals than any other hose type, making it the ideal choice for very corrosive chemical applications and multi-product applications.

- **Non-Stick Surface**

  The use of PTFE as a surface for cookware products has demonstrated to the world how easily cleanable PTFE surfaces are.

  This means that PTFE lined hoses can be purged 100% clean more quickly, easily and reliably than any other type of hose.

- **Excellent Temperature Range**

  The cookware application also demonstrates another of PTFE’s many attributes - temperature resistance. PTFE itself can be used as a hose liner at temperatures from -150°C up to +260°C, dependent upon the hose design and the application conditions.

  This is the widest temperature range of any rubber or plastic hose lining material.

- **Hose Design**

  The only issue with PTFE as a hose lining material is the best way it can be integrated in to the hose design. This is where Aflex Hose have a proven record of success over the last 40 years.
Visiflon was previously named Hyperline V - either name applies, but Visiflon is now the conventional name applied.

Visiflon includes a helically convoluted PTFE liner tube, and the tube is fully convoluted inside and out. (This is different to Hyperline FX tube, which is only convoluted on the outer surface).

This convoluted liner design makes the hose very flexible and very kink resistant across the size range.

**STANDARD GRADES AVAILABLE**

<table>
<thead>
<tr>
<th>Grade Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>Visiflon GP, TO</td>
<td>Natural PTFE Tube Only, No Braid.</td>
</tr>
<tr>
<td>Visiflon GP, AS, TO</td>
<td>Antistatic Black PTFE Tube Only, No Braid.</td>
</tr>
<tr>
<td>Visiflon GP, SS</td>
<td>Natural PTFE Tube external AISI 304 Stainless Steel Wire Braid.</td>
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<td>Antistatic Black PTFE Tube, external AISI 304 Stainless Steel Wire Braid.</td>
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*Visiflon GP, PB | Natural PTFE Tube, Orange Polypropylene Yarn Braid. |
*Visiflon GP, AS, PB | Antistatic Black PTFE Tube, Orange Polypropylene Yarn Braid. |

**GRADE DESCRIPTIONS**

**Antistatic PTFE Linings (AS Grade)**

When electrically resistive fluids like solvents and fuels, or multiphase mixtures are passed through natural PTFE hose at high flow rates, a static charge build up occurs on the inner wall of the PTFE liner, which eventually discharges to the nearest earth creating a leak path through the liner.

Antistatic PTFE includes a small quantity of a special carbon black which ensures safe static charge dissipation, in accordance with International Standards.

**Stainless Steel Wire Braid (SS Grades)**

The braid protects the PTFE liner tube against internal pressure and mechanical abuse.

**Polypropylene Yarn Braid (PB Grades)**

The braid is lighter in weight than SS braid, and any ends broken in service will not cut an operator’s hands. Operating Temperatures & Pressures, however are limited.

*Note: PB Grades are usually only available to special order.*
SPECIFICATIONS FOR VISIFLON HOSE GRADES

Specifications listed below are for non-AS Grades. For AS Grades the specifications are all the same, except that “AS” is added to the Grade Reference, and the Part Number reads “-110-” in place of “-100-”.

<table>
<thead>
<tr>
<th>Nominal Hose Size</th>
<th>*Actual Hose Bore Size</th>
<th>Hose Grade</th>
<th>Outside Diameter of Tube or Braid</th>
<th>Minimum Bend Radius</th>
<th>Maximum Working Pressure (MWP)</th>
<th>Weight per Unit Length</th>
<th>Hose Part Number</th>
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<td>⅛”</td>
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<td>⅜”</td>
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*Visiflon Hose assemblies require that the convolutions at the ends of the hose are opened out to accept either Hydraulic or PTFE Tail end fittings (see page 7).

Note: Many of the sizes of hose and fittings listed in this brochure are available as ex-stock items and are priced accordingly. However, some of the less popular items are not always in stock, and may therefore incur a minimum order charge or a set-up charge for smaller quantities. Aflex Hose will advise when the enquiry is made.

PROPERTIES

Temperatures and Pressures

**Visiflon TO Grades** - The MWP listed above applies up to a maximum temperature of 100°C (212°F).

**Visiflon SS Grades** - The MWP listed above should be reduced by 1% for each 1°C above 130°C up to a maximum of 230°C (1% for each 1.8°F above 266°F up to a maximum of 450°F).

**Visiflon PB Grades** - The MWP listed should be reduced by 5% for each 1°C above 80°C up to a maximum of 100°C (5% for each 1.8°F above 176°F to 212°F).

Vacuum Resistance
Visiflon SS Grades are vacuum resistant to -0.9 bar up to 130°C (266°F).
Visiflon TO and PB Grades are vacuum resistant to -0.9 bar up to 80°C (176°F).

Flow Rates
The internal convolutions restrict flow rates due to turbulent flow, and may also cause a whistling noise when gases are passed through. For any applications where this may be a problem, the alternative Aflex Hose products Hyperline FX or Corroline+ would provide a solution.
SUPPLY OPTIONS

Visiflon hose can either be supplied as made up and crimped hose assemblies, or as loose hose for customers to assemble themselves, using ferrules supplied by Aflex Hose, and either standard hydraulic end fittings or PTFE Tail end fittings.

Loose Hose

Visiflon hose can be supplied loose, in coils or on wooden reels if required, for Customers to assemble themselves.

For self-assembly, Customers must purchase not only the hose, but also the ferrules from Aflex Hose. If PTFE Tail design fittings are used, these must also be supplied by Aflex Hose, but hydraulic fittings are generally available.

Assembly must be carried out in accordance with the Instructions (page 7), and assemblers should be trained by Aflex Hose staff.

Assemblies

Aflex Hose can supply fully assembled Visiflon hose assemblies, with crimped ends.

A wide variety of End Fittings are available in Grade 316L Stainless Steel and Zinc Plated Mild Steel, including:

- 60˚ BSP Cone Seat Female Unions (also flat seat)
- Flat Seat Lug Nut Female Unions
- BSPT or NPT Fixed Males
- NPT Fixed Females
- 37˚ JIC Female Fittings
- 37˚ JIC/NPT Male Unions
- 37˚ JIC/NPT Female Unions
- Tube Fittings
- Standpipe Fittings

Note: stainless steel and carbon steel hydraulic tail end fittings and carbon steel PTFE tail end fittings do not always have a fine machined surface through the bore, and so are not suitable for certain specialised or hygienic applications which require a smooth bore. In such applications, stainless steel PTFE tail end fittings should be used.
VISIFLON HOSE ASSEMBLY INSTRUCTIONS

ASSEMBLY INSTRUCTIONS

1. Cut the hose to the required length, preferably using a hose cut off machine with a hardened steel blade, allowing for the length of the end fitting.

2. Assemble the correct ferrules (see list) on to the hose ends.

3. Open the hose bore, by screwing in then pulling out the correct Visiflon Opening Tool (Manual or Motorised). For hydraulic fittings, use the basic tool. For PTFE tail fittings, add the correct collar to the tool.

4. Insert the end fitting, then push the ferrule fully over the hose up to the end fitting.

5. Crimp the ferrule to the correct diameter as given in Aflex Document AS-42 for Hydraulic Inserts, or AS-VI-01 for PTFE Tail Inserts. These are available on an I-Bay system - apply to Aflex Hose for access codes. Check using a Vernier or Micrometer.

6. Pressure test the assembly with air or water to 1.5 x listed Maximum Working Pressure before use in application.

PART NUMBERS FOR VISIFLON HOSE FERRULES (GP OR GP, AS GRADE LINER)

<table>
<thead>
<tr>
<th>Visiflon Hose Size &amp; Grade</th>
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Note: X = This ferrule is not currently available.
PTFE Hose-Use with Alkali Metals, Halogens and Halogen containing Chemicals

PTFE hose liners react chemically with Fluorine, Chlorine Trifluoride and molten Alkali Metals.
When PTFE lined hose is used to carry Chlorine or Bromine, either as gasses or fluids, they will diffuse into and through the PTFE liner wall thickness. Trace quantities will then combine with atmospheric moisture to corrode any braid/rubber outer coverings. Heavily halogenated chemicals, like Hydrogen Fluoride, Hydrogen Chloride, Phosgene (Carbonyl Chloride) Carbon Tetrachloride and other organic chemicals with a high halogen content can also be absorbed and transmitted through the PTFE liner tube.

Other “Penetrating” Fluids and Gases
Sulphur Trioxide, Methyl Methacrylate, Caprolactam and Glacial Acetic Acid are some other chemicals which can be absorbed and transmitted through the PTFE liner tube wall.
Generally, however, as a hydrophobic (non-wetting) material, PTFE is very resistant to the absorption of chemicals. In some cases, PTFE has superior resistance to diffusion, for example to the diffusion of automotive fuels, in comparison with all other plastics and rubbers.

Gas/Fluid Cycling
There are some applications where the fluid passing through the hose turns into a gas, then back into a fluid, then into a gas etc, in a cyclic sequence.
This is normally associated with changes in temperature and/or pressure. For complex reasons these conditions are extremely damaging to the hose liner, whatever material it is made from.
For example, hoses are sometimes used to pass steam, water, steam etc into rubber moulding presses, in order to heat the mould, then rapidly cool it before reheating in the next cycle. Hoses of all types fail rapidly in such an application and PTFE lined hoses are no exception.
Please contact Aflex Hose for further information if these conditions apply.

Connecting Assemblies for Use in Applications
The lengths of hose assemblies and their configuration in use when connected into the application must always be in accordance with the Hose Configuration information at the end of this product literature.
When being connected for use in applications, the end fittings on hose assemblies must be connected to correct mating parts in the correct way, using the correct tools, spanners, clamps, nuts and bolts etc. The connections must be sufficiently tightened to ensure that the joint is leak free but not be over tightened as this can damage the sealing surfaces.
In applications involving the transfer through the hose of expensive or dangerous fluids or gases, the hoses and connections must be pressure tested in situ before being put in to service. This should be done with some harmless media to 1.5 times the maximum working pressure of the hose assembly, as stated in the product literature.
If in doubt please contact Aflex Hose for advice.

Special Applications
Aflex Hose PTFE lined hose products are not rated as suitable for use in the following, special applications:
All Radioactive Applications involving high energy radiation, including Gamma radiation (degrades PTFE)
All Medical Implantation Applications.
For Aerospace Applications, please contact Aflex for the appropriate hose choice.
Visiflon Hose and
Quality Assurance, Certification and Approvals

BS EN ISO 9001:2015
Aflex products are all manufactured in accordance with BS EN ISO 9001: Quality Management Systems independently assessed and registered by The British Standards Institution (BSI).

IATF16949:2016
Aflex Hose Ltd manufactures PTFE flexible hose for the automotive industry in accordance with IATF16949 and is assessed and certified by The British Standards Institution (BSI).

ISO 14001:2015
Aflex Hose Ltd have been successfully assessed to the requirements of ISO 14001, by the British Standards Institution (BSI). By gaining this accreditation Aflex Hose Ltd are demonstrating our commitment to reducing our impact on the environment.

ISO 45001:2018
Aflex Hose Ltd have been successfully assessed to the requirements of ISO 45001, by the British Standards Institution (BSI). By gaining this accreditation Aflex Hose Ltd are demonstrating our commitment to the health and safety of our employees by consistently identifying and controlling risks to health and safety, reducing the potential for accidents, complying to relevant legislation and improving overall awareness throughout the business.

FDA
The Materials used to manufacture the natural PTFE Tube liner conforms to FDA 21 CFR 177.1550, and the antistatic PTFE liner conforms to FDA 21 CFR 178.3297.

Automotive Fuel Hose - SAE J1737
Tested and approved for automotive fuel hose use in accordance with SAE J1737.

CE Marking (Europe only)
Aflex has been assessed by The British Standards Institution (BSI) and found to comply with the Pressure Equipment Directive 2014/68/EU Conformity Assessment Module D1, approved to CE Mark applicable hose products, accompanied by a Hose Usage Data Sheet, and a Declaration of Conformity.

Attestations of Conformity to ATEX Directive 2014/34/EU (Potentially Explosive Atmospheres)
Available for hose assemblies for components used in Gas Zones 1 & 2 and Dust Zones 21 & 22, when applicable.

Material Certification to EN10204
Available for all the hose or hose assembly components.

Certificates of Conformity to BS EN ISO/IEC 17050
Are available for all products.
HOSE CONFIGURATION & LENGTH CALCULATIONS
- FOR BEND RADIUS

HOSE CONFIGURATION REQUIREMENTS

Hose Assemblies are usually connected at both ends in service. They may then either remain in a fixed, or static configuration or in a flexing, or dynamic configuration.

Whether static or dynamic, the First Rule concerning the configuration of the hose is that the bend radius of the hose must never be less than the Minimum Bend Radius (MBR) for the hose as listed in the relevant hose brochure.

The most common situation when this is likely to occur is when the hose is flexed at the end fitting, with stress being applied to the hose at an angle to the axis of the end fitting. Typically, this happens either because the length of the hose is too short, or because the weight of the hose plus contents creates a stress at an angle to the end fitting.

The Second Rule, therefore, if possible, is to design the configuration to ensure that any flexing in the hose takes place away from the end fittings.

(DYNAMIC) CONFIGURATION

INCORRECT - Hose too short

Less than MBR

INCORRECT - Weight of hose is at 90° to Axis of End Fittings

Less than MBR

CORRECT - No flex at End Fittings

CORRECT - No flex at end fittings

90° Elbow
End Fittings
The Third Rule is that the hose configuration should always be designed, and supported where necessary, to avoid any possibility of external abrasion.

In some cases, the length, configuration and angle of the hose can be designed to avoid abrasion. In others, static or moving support frames or support wheels are required.

**INCORRECT** - Abrasion against hose

**INCORRECT** - Abrasion inside support

**CORRECT** - No hose abrasion

**CORRECT** - No abrasion over support

The Fourth Rule is that the hose must not be subjected to torque, either during connection, or as a result of the flexing cycle.

Torque (twist) in the hose can be applied during connection if the hose is accidentally twisted, or if the second end being connected is a screwed connection, and the hose is subjected to torque during final tightening.

In a flexing application, if any flexing cycle of the hose occurs in 3 dimensions instead of 2, then torque will also occur:

**CORRECT** - Flexing movement takes place in 2 dimensions

**INCOMPLETE** - Flexing movement takes place in 3 dimensions so torque is applied
CALCULATING THE HOSE LENGTH

The formula for calculating the bent section of the hose length around a radius is derived from the basic formula that the circumference of a circle = 2πR, where R = the radius of the circle, and π = a constant, = 3.142.

So, if the hose goes around a 90° bend, which is ¹/₄ of a full circumference, and the radius of the bend is R, then the length of the hose around the bend is = ¹/₄ x 2πR. Or half way round, in a U-shape, = ¹/₂ x 2πR.

Note:

In calculating the length of a hose assembly, the (non-flexible) length of the end fittings must be added in, also the length of any straight sections of hose, as in the following example:

Example:

To calculate the length for a 2" bore size hose with flange end fittings, to be fitted in a 90° configuration with one leg 400mm long, the other 600mm long.

Length of Bent Section (yellow) = ¹/₄ x 2πR (342)

= ¹/₄ x 2 x 3.142 x 342 = 537mm

Length of top, Straight Section, including the top end fitting length

= 600 - 342 = 258mm

Length of bottom end fitting = 58mm

Total length of Hose Assembly = 537 + 258 + 58 = 853mm

Things to consider

(a) A hose will normally take the longest radius available to it to go around a corner, not the MBR! Also always remember to include the non-flexible end fitting lengths.

(b) In dynamic applications, remember to always calculate the lengths for the most extended configuration during the flexing cycle, not the least extended.

(c) If the configuration is simply too complex for calculation, then obtain a length of flexible tubing of some kind, mark on paper, or a wall, or floor, or both where the connection points will be relative to each other, scaled down if necessary, then manually run the flexible tubing between them with full radii round bends. Measure the extended length, then scale up if necessary to determine the approximate length of the hose.

If in doubt, consult Aflex Hose.

Note: The bend radius is measured to the inside edge of the hose, For the minimum bend radius refer to page 5.
1. Definitions
“Business Days” means a day (other than a Saturday, Sunday or public holiday) when banks in London are open for business.
“Buyer” means a customer of the Seller.
“Conditions” means these terms and conditions for the sale of goods or the supply of services or both.
“Contract” means a binding contract for the sale of goods or the supply of services or both made by the Seller and the Buyer.
“Emergency Call-out” means the call-out service for emergency breakdowns of the Buyer’s plant or equipment provided by the Seller to the Buyer in accordance with these Conditions in connection with a Contract for the performance of the Services.
“Factored Products” shall mean products which are supplied by Seller, but are not manufactured by Seller, and are purchased by Seller from another supplier or manufacturer.
“Force Majeure Event” means an event beyond the reasonable control of the Seller including but not limited to strikes, lock-outs or other industrial disputes (whether involving the workforce of the Seller or any other party), failure of a utility service or transportation, epidemic or pandemic, war, riot, terrorism, civil commotion, malicious damage, compliance with any law or governmental order, rule, regulation or direction, accident, breakdown of plant or machinery, fire, flood, storm, default of suppliers or subcontractors.
“Goods” means the goods agreed to be sold by the Seller to the Buyer as detailed in the Order Acknowledgment.
“Intellectual Property Rights” means all copyright, database rights, semi-conductor topography rights, design rights, trademarks, trade names, patents, domain names and any other intellectual property rights of a similar nature (whether or not registered) subsisting anywhere in the world.
“Losses” means:
(a) any indirect, special or consequential loss or damage; or
(b) loss of data or other equipment or property; or
(c) economic loss or damage; or
(d) incurring of liability for loss or damage of any nature whatsoever suffered by third parties (including in each case incidental and punitive damages); or
(e) any loss of actual or anticipated profit, interest, revenue, anticipated savings or business or damage to goodwill.
“Seller” means Aflex Hose Limited.
“Services” means the services agreed to be supplied by the Seller to the Buyer as detailed in the Order Acknowledgment.
“Specification for Goods” means the specification for the Goods that is agreed in writing by the Seller and the Buyer.
“Specification for Services” means the specification for the Services that is agreed in writing by the Seller and the Buyer.

2. Interpretation of Contracts
(a) The Uniform Law on International Sales, the United Nations Convention on Contracts for the International Sale of Goods and the international rules for the interpretation of trade terms prepared by the International Chamber of Commerce (INCOTERMS) shall be excluded. The construction, validity and performance of all Contracts shall be governed by English law and, without prejudice to the right of the Seller to take action against the Buyer in any other court of competent jurisdiction, any claim or dispute, arising from or relating to a Contract shall be subject to the exclusive jurisdiction of and be determined by the courts of England. The taking of proceedings in any one or more jurisdiction shall not preclude the Seller from taking proceedings in any other jurisdiction, whether concurrently or not, to the extent permitted by the law of such other jurisdiction.
(b) The complete or partial invalidity or unenforceability of any provision in a Contract shall in no way affect the validity or enforceability of the remaining provisions of the Contract. Any such provision shall be deemed to be modified to the minimum extent necessary to make it valid or enforceable. If such modification is not possible, the relevant provision shall be deemed severed subject to such consequential modification as may be necessary for the purpose of such severance.
(c) The headings used herein are for convenience only and shall not affect construction.
(d) Words in the singular include the plural and in the plural include the singular.
(e) Reference to a Condition is to a Condition of these Conditions unless the context requires otherwise.

3. Formation of Contracts and Application of Terms and Conditions
(a) All Contracts shall be deemed to incorporate these Conditions.
(b) Any variation to these Conditions shall have no effect unless expressly agreed in writing and signed by an authorised signatory of the Seller and any variation of a Contract shall have no effect unless it is in writing and signed by the Seller and the Buyer (or their authorised representatives).
(c) A prospective Buyer shall place its order for goods or services (or both) by completing the Seller’s purchase order form, if applicable, or by submitting its own purchase order form (in either case, such form is the “Purchase Order”). Each Purchase Order shall be deemed to be an offer by the prospective Buyer to buy the goods or services (or both) of the Seller that are identified in the Purchase Order subject to these Conditions.
(d) The Purchase Order shall only be deemed to be accepted when the Seller issues to the prospective Buyer an order acknowledgement form which indicates acceptance of the prospective Buyer’s offer on these Conditions (the “Order Acknowledgment”). A Contract between the Seller and the Buyer shall come into existence at the time and on the date when the Seller delivers the relevant goods or services (or both) to the Buyer.
(e) The Contract shall constitute the entire agreement between the Seller and the Buyer and the Buyer acknowledges that it has not relied on any statement, promise or representation made or given by or on behalf of the Seller that is not set out in the Contract.
(f) The Buyer shall ensure that the description of the goods or services (or both) ordered which is contained in its Purchase Order and any applicable specifications is complete and accurate.
(g) These Conditions apply to the Contract to the exclusion of all other terms and conditions that the Buyer shall seek to impose or incorporate, or which are implied by trade, custom, practice or course of dealing. These Conditions may be extended by additional terms and conditions issued by the Seller in writing and confirmed in the Order Acknowledgment.

4. Quotations and Purchase Orders
(a) Any quotation issued by the Seller shall not constitute an offer and is given on the basis that no Contract shall come into existence unless and until the Seller despatches an Order Acknowledgement to the Buyer.
(b) Any quotation issued by the Seller is valid for a period of 5 Business Days for delivery dates and 30 Business Days for prices only after the date of its issue, provided that the Seller has not previously withdrawn it by notice in writing to the Buyer.
(c) Subject to Condition 4(d), any Purchase Order accepted by the Seller shall be accepted on the basis that the price for the goods or services (or both) shall be that set out in the Seller’s quotation on condition that the Seller’s quotation is within its period of validity and notice of withdrawal in writing has not been issued by the Seller at the time of acceptance.
(d) The Seller reserves the right to give in writing notice of the withdrawal of a quotation at any time within the period of validity of the quotation and before the Contract is formed. In the event that the Seller changes the price of any of the goods or services (or both) offered for sale or supply, any existing quotation in respect of those goods or services (or both) shall be deemed to be automatically withdrawn and the Seller shall issue a new quotation to the prospective Buyer.
(e) The prices stated in the Seller’s quotations are exclusive of VAT.
(f) All Purchase Orders placed by a prospective Buyer shall be placed by fax, post or e-mail, or, where agreed in advance in writing by the Seller, by telephone or Seller’s electronic system for prospective Buyers to place orders and make payments.

SALE OF GOODS
5. The Goods
(a) The Goods are described in the Specification for Goods. The Goods shall comply with the Specification for Goods in material respects. Any stated dimension or weight set out in the Specification for Goods is an estimate only.
(b) All performance figures, descriptions (other than any description set out in the Specification for Goods), drawings and samples of Goods are approximate only being intended to serve merely as a guide. The Seller shall not be liable for their accuracy and they shall not form part of the Contract. No Contract shall be a contract by sample.
(c) The Seller may alter the Specification for Goods:
(i) for the purpose of making changes to the Goods which it can establish to the reasonable satisfaction of the Buyer constitute improvements to the Goods or;
(ii) if required by any applicable statutory or regulatory requirements.
(d) The Seller may increase the price of the Goods by giving notice in writing to the Buyer at any time before delivery, to reflect any increase in the cost of the Goods to the Seller that is due to:
CONDITIONS OF SALE CONTINUED

(i) any factor beyond the control of the Seller (including foreign exchange fluctuations, increases in taxes and duties, and increases in the cost of acquiring or manufacturing the Goods;
(ii) any request by a Buyer to change the delivery date(s), quantities or types of Goods ordered, to reduce the specification for Goods; or
(iii) any delay caused by any instructions of the Buyer in respect of the Goods or failure by the Buyer to give the Seller adequate or accurate information or instructions in respect of the Goods.

(e) All drawings, designs, and quotations for which goods are not subsequently ordered by the Buyer shall remain the property of the Seller and shall be treated as confidential by the Buyer and not used in any way.

(f) The Seller shall have no liability in relation to any such drawings, designs or quotations.

(h) The Buyer accepts that Seller is not an expert in the technical features which apply to Factored Products and/or their use in application. Seller’s only obligation will be to pass on to the Buyer all the written information which Seller has itself received regarding the Factored Product, but the Buyer shall be responsible for ensuring that this and any other necessary Factored Product information is obtained and is reviewed and will decide solely if such data is sufficient to ensure that the Factored Product is fit for purpose in the intended usage application. If any application for which the information is not fully covered by the information reported by the Seller, the Buyer shall be responsible for ensuring that the information is obtained from other sources to which the Buyer can obtain, then the Buyer undertakes not to use or supply the Factored Product for use in that application. The Buyer is also responsible for ensuring that the Factored Product will not be subjected to levels of usage or accidental physical abuse in service which would cause the Factored Product to fail. The Buyer agrees and acknowledges that Seller, its officers, directors, employees, affiliates and representatives shall not be held liable for any claims or obligations arising out of the Buyer’s failure to fulfill any or all of its responsibilities set forth in this clause (h), and hereby agrees and holds Seller and its officers, directors, employees, affiliates, and representatives fully harmless from any and all claims that may arise in respect to Factored Products. If the Buyer has any doubts concerning these or any other usage conditions and limitation or safety parameters, the Buyer shall consult Seller and request a written response to any queries.

5A. UNTESTED HOSE SUPPLIES FOR SELF-ASSEMBLY BY BUYERS (“SAC”)

(a) Unless otherwise specified in writing by Seller, “loose” hose supplied (without end fittings attached) for self-assembly by Buyer (who will cut the hose to length and attach end fittings to make up Hose Assemblies for their own use, or for sale to their own customers) will not be pressure tested by Seller before supply. Such hydrostatic testing of the hose and the end fitting attachment will be the sole responsibility of the Buyer and Buyer warrants and represents that it shall carry out such hydrostatic pressure testing on all of its SAC hoses purchased from Seller, adhering to the maximum working pressure (MWP) and safety factor of the hose assembly as specified in the relevant Seller product brochure (as may be amended from time to time).

(b) When pressure testing braided hoses with a plastic or rubber outer cover, the cover will mask any signs of leakage for a time. The Buyer agrees and acknowledges that in respect of all SAC hoses, after the hydrostatic pressure test, it is further required that hose assembly with an internal helium gas pressure of 30 Bar (450 psi) for hose sizes up to 1” and 15 Bar (225 psi) for hose sizes above 1”, with the hose assembly immersed in water to enable leak detection by gas bubbles, for a minimum test period of 5 minutes.

(c) The Buyer agrees and acknowledges that in respect of all SAC hoses, Buyer alone shall determine and approve the design suitability of the hose assembly for its intended use before supply by Seller and that it shall indemnify and hold Seller fully harmless from any and all claims and losses, whether direct or indirect arising from design suitability for a SAC hose.

5B. UNTESTED HOSE ASSEMBLIES

If Seller agrees under a Purchase Order to attach non-standard end fittings to hose assemblies which the Buyer supplies to Seller, Buyer acknowledges and agrees that, in some instances, it is not possible to connect such non-standard fittings to the Seller pressure testing system. In such cases Buyer agrees that Seller shall be entitled, on giving notice to Buyer, not to test such Goods. Seller shall label the hose assembly with a warning that it requires pressure testing before use. The Buyer agrees and acknowledges that Seller shall have no liability whatsoever if the Buyer does not acknowledge that Seller shall have no liability whatsoever if the Buyer does not comply with the warning that requires pressure testing before use, and agrees to fully indemnify and hold Seller fully harmless from any and all claims arising from any use by Buyer or onward sale by Buyer of such untested hose assemblies.

6. Despatch and Delivery

(a) For the purposes of this Condition 6, the “Goods” shall mean the Goods in their entirety where delivery is not by instalments or, where delivery is by instalments, each instalment of the Goods.

(b) Unless otherwise agreed in writing by the Seller, delivery of the Goods shall take place at the location stated by the Seller in the Order Acknowledgement (the “Point of Delivery”).

(c) Any stated delivery date is an estimate and time for delivery shall not be of the essence. The Seller will use reasonable endeavours to meet any stated delivery date.

If no date for delivery is specified, delivery shall be within a reasonable time.

(d) THE SELLER SHALL NOT BE LIABLE FOR ANY LOSSES (AS DEFINED), CAUSED DIRECTLY OR INDIRECTLY BY ANY DELAY IN THE DELIVERY OF THE GOODS EVEN IF CAUSED BY THE SELLER’S NEGLIGENCE.

(e) ANY DELAY IN THE DELIVERY OF THE GOODS SHALL NOT ENTITLE THE BUYER TO TERMINATE OR RESCIND THE CONTRACT UNLESS SUCH DELAY EXCEEDS ONE HUNDRED AND EIGHTY (180) DAYS.


(g) Except insofar as the Contract expressly provides otherwise, standard carriage and packaging is excluded in the price. Seller may select the method of delivery, and charge the Buyer for the cost of carriage. Where the Goods are to be delivered at the Buyer’s request by any special or express means, the Seller will charge the Buyer the full cost of carriage. When any special packaging is required (whether at the Buyer’s request or because the Seller considers special packaging to be necessary), then the Seller will charge the Buyer the full cost of such packaging.

(h) In contracting for carriage and/or insurance of the Goods in transit, if required by the Contract, the Seller shall be deemed to act solely as agent of the Buyer.

(i) The Buyer must:

(i) examine the Goods on delivery;
(ii) notify the Seller and any carrier in writing of any shortage or damage within four Business Days after the date of delivery and in respect of non-delivery within ten (10) Business Days after the Goods would in the ordinary course of events have been expected to arrive and
(iii) in the case of short or damaged delivery give the Seller a reasonable opportunity to inspect the Goods,

otherwise Goods shall be deemed accepted by the Buyer.

(j) ANY LIABILITY OF THE SELLER FOR NON-DELIVERY OF THE GOODS SHALL BE LIMITED TO EITHER DELIVERING THE GOODS WITHIN A REASONABLE TIME OR ISSUING A CREDIT NOTE AT THE PRO RATA CONTRACT RATE AGAINST ANY INVOICE RAISED FOR SUCH GOODS.

(k) The Seller may deliver the Goods by instalments, each instalment to be deemed to be a separate Contract. Without limiting the other provisions herein, no failure or defect in delivery in respect of any Contract or instalment shall entitle the Buyer to repudiate or cancel any other Contract or instalment.

(l) If for any reason the Buyer fails to accept delivery of any of the Goods within two (2) Business Days of the Seller giving notice to the Buyer that the Goods are ready, or the Seller is unable to deliver the Goods on time because the Buyer has not provided appropriate instructions, documents, licences or authorizations for the Goods when they are tendered by the Seller for delivery then, except where such failure is caused by a Force Majeure Event:

(i) delivery of the Goods shall be deemed to have been completed at 9.00 am on the second (2nd) Business Day after the day on which the Seller notified the Buyer that the Goods were ready;
(ii) risk in the Goods shall pass to the Buyer on completion of delivery; and
(iii) the Seller may store the Goods until delivery takes place, whereupon the Buyer shall be liable for all related costs and expenses (including, without limitation, storage and insurance). The Buyer shall be responsible for all losses incurred by the Seller where the Buyer fails to accept delivery of Goods.

(m) If ten (10) Business Days after the Seller giving notice to the Buyer that the Goods were ready the Buyer has not accepted delivery of the Goods, the Seller may resell or otherwise dispose of part or all of the Goods.

(n) Due to the nature of the production of PTFE hose, Seller reserves the right to call a Purchase Order for bulk hose complete in the following situations: (a) if a product is a standard Seller product (as listed in Seller’s product brochures) a figure of +10% of original order quantity can be supplied. Goods supplied within these parameters would result in the Purchase Order being complete and delivery satisfied.

7. Title

(a) The title in the Goods supplied shall not pass to the Buyer until receipt by the Seller in cleared funds of payment in full (including payment of any default interest) for:

(i) the Goods; and
(ii) any other goods or services that the Seller has supplied to the Buyer and in respect of which payment is due.

(b) Until the title in the Goods passes to the Buyer the Buyer shall:

(i) be a bailee of the Goods;
CONDITIONS OF SALE

(ii) store the Goods separately from all other goods held by the Buyer so that the Goods remain readily identifiable as the Seller’s property;

(iii) not remove, deface or obscure any identifying mark or packaging on or relating to the Goods;

(iv) not fix or annex the Goods to or merge the Goods with any part of the Buyer’s premises, plant or equipment without the Seller’s prior consent in writing;

(v) maintain the Goods in satisfactory condition;

(vi) keep the Goods insured against all risks with a reputable insurer which has been approved by the Seller for their full price, and ensure that the Seller’s interest in the Goods is noted on the insurance policy until title in the Goods passes to the Buyer. If the Buyer fails to insure the Goods the Seller may do so instead on behalf of the Buyer, who shall reimburse the Seller on demand. Until title in the Goods passes to the Buyer, the Buyer shall hold in trust for the Seller the policy and proceeds of insurance;

(vii) notify the Seller immediately if it becomes subject to any of the events listed in Conditions 21(a)(iv) to 21(a)(x);

(viii) give the Seller such information relating to the Goods as the Seller may require from time to time; and

(ix) not dispose of, charge or encumber the Goods or any interest in the Goods or purport to do so, but the Buyer may resell the Goods to an independent third party on arm’s length terms in the ordinary course of its business.

(c) If before title to the Goods passes to the Buyer the Buyer becomes subject to any of the events listed in Conditions 21(a)(iv) to 21(a)(x), or the Seller reasonably believes that any such event is about to happen and gives notice to the Buyer accordingly, then, provided that the Goods have not been resold, or irrevocably incorporated into another product, and without limiting any other right or remedy the Seller may have, the Seller may at any time require the Buyer to deliver up the Goods and, if the Buyer fails to do so promptly, the Seller may enter any premises of the Buyer or of any third party where the Goods are stored in order to recover them.

8. Warranty for Goods

(a) Subject to Condition 8(b), the Seller warrants that on delivery, and for a period of 24 months (12 months for all Hose Assemblies which are “ETH” (“Electrical Trace Heated”)) Grade or are Factored Products) from the date of delivery the Goods shall:

(i) conform with the Specification for Goods; and

(ii) be free from material defects in material or workmanship.

(b) In respect of Goods which are packages or electrically or electronically controlled or actuated Goods, the Seller warrants that on delivery, and for a period of 12 months from the date of delivery such Goods shall:

(i) conform with the Specification for Goods; and

(ii) be free from material defects in material or workmanship.

(c) Subject to the remainder of this Condition 8, the Seller warrants that if (i) the Buyer provides the Seller with written notification within forty-eight (48) hours of discovering a suspected defect, (ii) if requested by Seller (after Buyer has provided all relevant information requested by Seller in respect of the suspected defective Goods(s)), the Buyer returns the Goods within the relevant warranty period for such Goods (as set out in either Condition 8(a) or 8(b)) and (iii) on the Seller’s examination such Goods prove defective as to material or workmanship or as to compliance with the relevant Specification for Goods the Seller shall:

(i) give notice to the Buyer that such Goods prove defective as to material or workmanship or as to compliance with the relevant Specification for Goods; and

(ii) following giving notice thereof to the Buyer;

(aa) with respect to Goods which have been manufactured by the Seller, make good the defect without charge by (at the Seller’s option) repairing the defective Goods, replacing defective components of the defective Goods, or replacing the defective Goods (in their entirety) as the Seller in its discretion considers appropriate; or

(bb) with respect to Goods which have been supplied, but not manufactured by the Seller, and to the extent that it is entitled to do so, assign or at its discretion use its reasonable endeavours otherwise to make available to the Buyer, at the Buyer’s expense and on the basis of an indemnity (secured if appropriate) against all Losses that may be incurred by the Seller in relation thereto, the benefit of any obligations and warranties which relate to such defect which the Seller may be owed by the manufacturer and/or supplier of the Goods or any part or component thereof.

(d) The above warranties shall apply except where the defect in the Goods:

(i) has been caused wholly or partly by deterioration of the Goods which is necessarily incidental to the transit of the Goods;

(ii) has been caused while the Goods were at the Buyer’s risk by:

(aa) wilful default or negligence by the Buyer or its employees, agents, consultants or subcontractors;

(bb) the occurrence of an accident;

(cc) failure by the Buyer to follow the Seller’s instructions in relation to the storage, use, installation, commissioning or maintenance of the Goods;
will provide such statements, certificates and assurances regarding transfer, use, disposition, end-use, source of supply, nationalities and re-export of the Goods as may be required in connection with each party’s application for any required license or governmental authorisation.

(e) Any government fees or charges in connection with obtaining such licenses or authorisations will be the responsibility of the party which is exporting, in the case of exports, and the party which is importing, in the case of imports, the Goods.

(f) The Buyer undertakes not to:
   (i) offer the Goods for resale in any country where the Buyer knows the export of the Goods is prohibited by the US Government, the UK Government, the UN, the EU or any other relevant organisation.
   (ii) offer to sell the Goods to any person the Buyer knows or suspects will subsequently resell the Goods into a country where export of the Goods is prohibited by the US Government, the UK Government, the UN, the EU or any other relevant organisation.

(g) The Buyer will indemnify the Seller for all liabilities, loss, damages, costs and expenses awarded against or incurred by the Seller arising out of in connection with any breach of the Buyer’s obligations contained in Condition 11(g).

(h) The Buyer agrees to provide the Seller with any information the Seller reasonably requires concerning the destination and use of the Goods, to allow the Seller to comply in full with any relevant export legislation.

SUPPLY OF SERVICES

12. Period of Supply
   (a) Unless otherwise specified in the Order Acknowledgment, the agreement for the supply of the Services shall be for a period of one (1) year from the date the Seller issues an Order Acknowledgment to the Buyer in accordance with Condition 3 (d) (the “Term for Services”).
   (b) The Seller reserves the right to increase its price for the Services at any time during the Term for Services. The Seller will give the Buyer notice in writing of any such increase not less than eight (8) weeks before the proposed date of increase. If such increase is not acceptable to the Buyer, it shall notify the Seller in writing within two (2) weeks of the Seller’s notice and the Seller shall have the right, without limiting its other rights or remedies, to terminate the Contract by giving four (4) weeks’ notice in writing to the Buyer.

13. Performance of Services
   (a) The Seller agrees to provide the Services in accordance with the Specification for Services in all material respects, and to supply as necessary spare or replacement parts and/or consumables, to the Buyer’s plant and/or equipment at the sites(s) specified in the Seller’s Order Acknowledgment.
   (b) If the Seller agrees to supply spare or replacement parts and/or consumables, such supply will be strictly on the basis of these Conditions.
   (c) Any stated performance date is an estimate only and time for performance of such supply will be strictly on the basis of these Conditions.
   (d) The Seller shall not be liable for any Losses (as defined), caused directly or indirectly by any delay in the performance of the Services unless such delay exceeds one hundred and eighty (180) days.
   (e) Subject to Condition 13(b), any delay in the performance of the Services shall not entitle the Buyer to terminate or rescind the Contract unless such delay exceeds one hundred and eighty (180) days.

(f) Subject to Condition 13(g), the Seller’s liability for non-performance of Services shall be limited to either performing the Services within a reasonable time or issuing a credit note at the pro rata contract rate against any invoice submitted to the Buyer for the Services.
   (g) If the Seller’s performance of the Services is prevented or delayed by the Buyer or by the failure of the Buyer to perform any of its obligations under the Contract (“Buyer Default”) then upon the Seller giving the Buyer notice in writing that there has been a Buyer Default:
      (i) the Seller shall not be liable for any Losses incurred by the Buyer arising directly or indirectly from the Seller’s failure or delay in performing the Services;
      (ii) the Seller shall not be liable for any Losses incurred by the Buyer arising directly or indirectly from the Buyer’s failure or delay in performing the Services; and
      (iii) the Buyer shall reimburse the Seller on demand for all Losses incurred by the Seller arising directly or indirectly from the Buyer Default.
   (h) The Buyer warrants that in providing the Services it will exercise reasonable care and attention and that it will comply with all applicable laws and regulations. However the Seller excludes liability for all Losses arising directly or indirectly out of any failure or diminution in performance of the Buyer’s plant or equipment caused by the plant or equipment, or any part thereof:
      (i) being used or operated otherwise than in accordance with any applicable installation, maintenance or operational instructions; or
      (ii) being used or operated otherwise than in accordance with the Seller’s instructions or recommendations; or
      (iii) having been adjusted, changed or altered in any way by the Buyer or any third party since the date of installation or commissioning of the plant or equipment or the date of the immediately preceding visit by the Seller’s employee or sub-contractor.
   (j) The Seller warrants to the Buyer that the Buyer’s plant and equipment is supplied with water at a quality that complies with BS2486 and is compliant with any additional requirements in writing notified by the Seller to the Buyer in respect of the Buyer’s plant and equipment. The Seller excludes all liability for Losses arising directly or indirectly out of any failure or diminution in performance of the Buyer’s plant or equipment or any part thereof which is caused directly or indirectly by a breach by the Buyer of this warranty.
   (k) The Seller reserves the right to replace at the Buyer’s cost the Buyer’s plant or equipment or any part thereof which is unseerviceable or inefficient as the Seller considers reasonably necessary in order to fulfil its obligations to provide the Services in accordance with the specification set out in the Order Acknowledgment.
   (l) Alternatively, the Seller may charge the Buyer for the reconditioning of any part of the Buyer’s plant or equipment that, in the reasonable opinion of the Seller, cannot be suitably or economically repaired on site. The Seller will provide the Buyer with an estimate of reconditioning charges for each item and if the Buyer does not agree to have the item(s) reconditioned, the Seller reserves the right to amend the scope of the Services as its absolute discretion it considers necessary.

14. Access to Buyer’s Site(s)
   (a) The Buyer shall co-operate with the Seller in all matters relating to the Services, and shall provide the Seller with such information as the Seller may reasonably require in order to perform the Services. The Buyer shall ensure that such information is accurate in all material respects.
   (b) The Buyer shall obtain and maintain any necessary licences, permissions, and consents which may be required before the date upon which the Services are due to start.
   (c) The Buyer shall permit the Seller, its employees, agents, consultants and subcontractors full and free access to the Buyer’s site(s) and to the Buyer’s plant and equipment which is the subject of the Contract, subject to the Seller and its employees, agents, consultants and subcontractors complying with the Buyer’s reasonable requirements as to site safety and security. If, at the time of any pre-arranged visit the Seller’s employees, agents, consultants and subcontractors are unable to gain access to the Buyer’s site(s) or plant or equipment in order to supply the Services, the Seller reserves the right to charge for the time spent attending at the Buyer’s site(s) and for the costs of carrying out any subsequent visit.
   (d) If reasonably required by the Seller, the Buyer shall make available to the Seller a secure storage area at the Buyer’s site(s) for storage of the Seller’s service equipment and shall keep all materials, equipment, documents and other property of the Seller (the “Seller Service Equipment”) in such storage area in safe custody and at the Buyer’s risk. The Buyer shall not dispose of the Seller Service Equipment other than in accordance with the Seller’s instructions in writing.
   (e) Prior to any visits by the Seller’s employees, agents, consultants or subcontractors, the Buyer will:
      (i) strip back any pipe lagging;
      (ii) supply and erect suitable scaffolding (if required) to allow working access to the Buyer’s plant and equipment; and
      (iii) supply any necessary lifting equipment and required operators.
   (f) Following any visits by the Seller’s employees, agents, consultants or subcontractors, the Buyer will be responsible for the reinstatement of any pipe lagging and the dismantling of any scaffolding erected.
   (g) The Buyer will provide the Seller’s employees, agents, consultants and subcontractors with all specialist safety clothing or equipment as may be necessary to meet the Buyer’s health and safety and environmental rules (excluding hard hat, safety glasses, overalls and protective shoes which will be provided by the Seller).
   (h) The Buyer will procure that the Seller’s employees, agents, consultants and subcontractors are covered by the Buyer’s third party liability insurance policy of an amount of not less than three million pounds (£3,000,000) per occurrence whilst such employees or subcontractors are on the Buyer’s site(s).
16. Cancellation
(a) No contract shall be cancelled by the Buyer except with the Seller's prior consent in writing.
(b) In the event of the Seller agreeing to the Buyer cancelling all or any part of the Contract, the Seller may, without prejudice to any other rights against the Buyer which it may have, require the Buyer to pay a cancellation charge. Any cancellation charge will correspond to the type of contract being cancelled. Contracts for bespoke Goods manufactured by the Seller to the Buyer's specifications may be subject to a cancellation charge of 100% of the price of the Contract after the Order Acknowledgement has been sent. In the event that the Seller agrees to cancellation of a Contract in respect of the supply of Goods or Services (or both) which have been ordered to comply with the Buyer’s special requirements, the Buyer shall be liable for all costs incurred by the Seller up to the time of cancellation of the Contract in addition to payment of a cancellation charge pursuant to Condition 16(b).

17. Intellectual Property
(a) The Buyer acknowledges that:
(i) the Intellectual Property Rights in the Goods and any materials prepared by the Seller or on its behalf which relate to the Goods and their development (including, without limitation, drawings, designs, samples, models and similar items) (the "Goods Materials") are the Property of the Seller or the third party manufacturers of the Goods (as applicable);
(ii) nothing in these Conditions or in a Contract shall be construed as conferring any licence or granting any rights in favour of the Buyer in the Intellectual Property Rights in the Goods or the Goods Materials. The Buyer may re-sell the Goods subject to the Seller’s right to control the use of its trade marks within the European Economic Area or jurisdiction into which the Goods are sold and the Buyer shall assist the Seller as required in preventing parallel importers from diluting the Seller’s rights; and
(iii) any goodwill in any trade marks affixed or applied to the Goods shall enure to the sole benefit of the Seller or any other owner of the trade marks from time to time.
(b) The Buyer shall not repack the Goods and shall not without the Seller’s prior consent in writing allow any trade marks of the Seller or other words or marks applied to the Goods to be obliterated, obscured or omitted or add any additional marks or words.
(c) The Buyer shall not use (other than pursuant to these Conditions or a Contract) or seek to register any trade mark or trade name (including any company name) which is identical to, confusingly similar to, or incorporates any trade mark or trade name which the Buyer owns or claims rights in anywhere in the world.
(d) If at any time it is alleged that the Goods infringe the rights of any third party or if, in the Seller’s reasonable opinion, such an allegation is likely to be made, the Buyer may at its option and its own cost:
(i) modify or replace the Goods in order to avoid the infringement; or
(ii) procure for the Buyer the right to continue using the Goods; or
(iii) repurchase the Goods at the price paid by the Buyer, less depreciation at the rate of 5% per annum.
(e) If the Buyer promptly notifies the Seller of:
(i) any actual, threatened or suspected infringement of any of the Intellectual Property Rights in the Goods or the Goods Materials (or both) which comes to the Buyer’s notice; and
(ii) any claim by any third party that comes to the Buyer’s notice that the sale or advertisement of the Goods or the use of the Goods Materials (or both) infringes the rights of any person.
(f) The Buyer agrees (at the Seller’s request and expense) to do all such things as may be reasonably required to assist the Seller in taking or resisting any proceedings in relation to any infringement or claim referred to in Condition 17(e), and the Buyer shall not make any admissions or statements in respect of or compromise any such claim other than with the prior written consent of the Seller.
(g) In the event of any claim, proceeding or suit by a third party against the Buyer alleging an infringement of such party’s rights by any of the Intellectual Property Rights in the Goods or the Goods Materials (or both), the Seller shall defend the claim, proceeding or suit at the Seller’s expense, subject to:
(i) the Buyer promptly notifying the Seller in writing of any such claim, proceeding or suit; and
(ii) the Seller being given sole control of the defence of the claim, proceeding or suit, and provided that the Seller shall not be liable and shall not defend the claim, proceeding or suit to the extent that such infringements arise out of or in connection with modifications to the Goods or the Goods Materials (or both) made by anyone except the Seller or its authorised representative, or out of use or annexation of the Goods or the Goods Materials (or both) with or to products or third party materials not specified or expressly approved in advance in writing by the Seller, or where the claim, proceeding or suit arises from the Seller’s adherence to the Buyer’s requested changes to the Specification for Goods or from infringing items of the Buyer’s origin, design or selection.
(h) The Seller shall reimburse the Buyer with an amount equal to any liability assessed against the Buyer by final judgment on account of an infringement described in Condition 17(g).
CONDITIONS OF SALE

18. Trade Prohibitions
(a) The Buyer undertakes to the Seller that the Buyer shall not re-sell or otherwise supply the Goods to a third party which is the subject of any statutory trade prohibition of the United States of America or a member state of the European Union ("Sanctioned Third Party").
(b) Without prejudice to Condition 18(a), if the Seller shall have notice of or reasonable grounds to believe that the Buyer intends to re-sell or otherwise supply the Goods to a Sanctioned Third Party the Seller may upon giving notice thereof to the Buyer refuse to deliver the whole or any part of the Goods and shall have no liability to the Buyer for such refusal.

19. Limitation and Exclusion of Liabilities
(a) SUBJECT TO AND WITHOUT LIMITING CONDITION 19(B) OR ANY OTHER CONDITION, THE SELLER SHALL NOT BE LIABLE TO THE BUYER WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), BREACH OF STATUTORY DUTY, OR OTHERWISE, FOR ANY LOSSES (AS DEFINED) ARISING DIRECTLY OR INDIRECTLY OUT OF OR IN CONNECTION WITH ANY CONTRACT FOR THE SUPPLY OF GOODS AND/OR SERVICES (OR THAT PART OF A CONTRACT WHICH RELATES TO GOODS AND/OR SERVICES).
(b) Notwithstanding any other terms of these Conditions the Seller does not limit or exclude its liability for fraud or fraudulent misrepresentation or for death or personal injury resulting from its negligence or the negligence of its employees, agents or subcontractors in connection with products other than the Goods and Services.
(c) SUBJECT TO AND WITHOUT LIMITING CONDITION 19(B) OR ANY OTHER CONDITION, THE SELLER'S TOTAL LIABILITY TO THE BUYER IN RESPECT OF ALL OTHER LOSS ARISING OUT OF OR IN CONNECTION WITH ANY CONTRACT FOR THE SUPPLY OF GOODS AND/OR SERVICES (OR THAT PART OF A CONTRACT WHICH RELATES TO GOODS AND/OR SERVICES), WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), BREACH OF STATUTORY DUTY, OR OTHERWISE, SHALL IN NO CIRCUMSTANCES EXCEED THE VALUE OF THE CONTRACT WHICH GAVE RISE TO BUYER'S CLAIM.
(d) THE BUYER ACKNOWLEDGES AND AGREES THAT THE LIMITED WARRANTIES AND ALL LIMITATIONS AND EXCLUSIONS OF THE SELLER'S LIABILITY SET OUT IN THESE CONDITIONS ARE REASONABLE AND ARE REFLECTED IN THE PRICE OF THE GOODS OR SERVICES (OR BOTH) (AS APPLICABLE) AND THE BUYER SHALL ACCEPT RISK OR INSURE ACCORDINGLY (OR BOTH).

The Seller shall have no responsibility for any Losses incurred by the Buyer in the event that any information in any quotation or Order Acknowledgement is applied in connection with products other than the Goods and Services.

(f) This Condition 19 shall survive the termination or cancellation of the Contract.

20. Force Majeure
(a) The Seller shall not be liable to the Buyer as a result of any delay or failure to perform its obligations under the Contract as a result of a Force Majeure Event.
(b) If the Force Majeure Event prevents the Seller from providing any of the Services or Goods (or both) for more than forty-four (44) Business Days, the Seller shall, without limiting its other rights or remedies, have the right to terminate the Contract with the Buyer immediately by giving notice in writing to the Buyer.

21. Events of Default, Termination, Repossession, Suspension; Dispute Resolution
(a) The Seller may terminate the Contract with immediate effect by giving notice in writing to the Buyer if:
(i) the Buyer fails to pay any amounts due under the Contract on the due date for payment; or
(ii) the Buyer otherwise breaches the Contract with the Seller and the breach, if remediable and previously notified in writing to the Buyer, is not remedied within five (5) Business Days of the Buyer receiving such notice; or
(iii) the Buyer terminates any other Contract between the Seller and the Buyer; or
(iv) the Buyer is or otherwise becomes insolvent or unable to pay its debts or suspends payment of its debts or threatens to do so or is unable to pay its debts as they fall due or admits its inability to pay its debts; or
(v) the Buyer commences negotiations with all or any class of its creditors with a view to rescheduling any of its debts, or makes a proposal for or enters into any compromise or arrangement with its creditors other than for the sole purpose of a scheme for a solvent amalgamation;
(vi) a petition is filed, a notice is given, a resolution is passed, or an order is made, for or in connection with the winding up of the Buyer other than for the sole purpose of a scheme for a solvent amalgamation;
(vii) a creditor or encumbmer of the Buyer attaches or takes possession of, or a distress, execution, sequestration or other such process is levied or enforced on or sued against, the whole or any part of its assets and such attachment or process is not discharged within fourteen (14) days;
(viii) an application is made to court, or an order is made, for the appointment of an administrator or if a notice of intention to appoint an administrator is given or if an administrator is appointed over the Buyer;
(ix) the holder of a qualifying charge over the assets of the Buyer has become entitled to appoint or has appointed an administrative receiver;
(x) a person becomes entitled to appoint a receiver over the assets of the Buyer or a receiver is appointed over the assets of the Buyer;
(xi) any event occurs, or proceeding is taken, with respect to the Buyer in any jurisdiction to which it is subject that has an effect equivalent or similar to any of the events mentioned in Conditions 21(a)(iv) to Condition 21(a)(xi) (inclusive);
(xii) the Buyer suspends, threatens to suspend, ceases or threatens to cease to carry on, or substantially the whole of its business;
(xiii) the Buyer's financial position deteriorates to such an extent that in the Seller's opinion the Buyer's capability to adequately fulfil its obligations under the Contract has been placed in jeopardy.
(b) In the event that the Seller terminates the Contract pursuant to Condition 21(a) the Seller may (in its absolute discretion and without prejudice to its other rights under these Conditions or otherwise) by notice in writing to the Buyer do any one or (to the extent not inconsistent with one another) more of the following:
(i) suspend any deliveries of Goods to be made under any contract with the Buyer;
(ii) revoke any express or implied authority to sell or use any Goods the title in which has not passed to the Buyer ("Relevant Goods");
(iii) require the Buyer to deliver to the Seller any Relevant Goods; and the Buyer shall do so, failing which the Seller may enter the premises where the Relevant Goods are or are thought to be and repossess the Goods, without liability for any resulting damage to the Buyer's premises, plant or equipment.
(c) All disputes arising out of or in connection with the Contract shall be submitted to the International Court of Arbitration of the International Chamber of Commerce and shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules. The place of arbitration shall be London with the laws of England governing the Contract. The language of the arbitration shall be English.

22. Confidentiality
Each of the Seller and the Buyer (the “Receiving Party”) shall keep in strict confidence all technical or commercial know-how, specifications, inventions, processes or initiatives which are of a confidential nature and have been disclosed to the Receiving Party by the other party (“Disclosing Party”), its employees, agents or subcontractors, and any other confidential information concerning the Disclosing Party’s business, its products and services which the Receiving Party may obtain. The Receiving Party shall only disclose such confidential information to those of its employees, agents and subcontractors who need to know it for the purpose of discharging the Receiving Party’s obligations under the Contract, and shall ensure that such employees, agents and subcontractors comply with the obligations set out in this Condition 22 as though they were a party to the Contract. The Receiving Party may also disclose such of the Disclosing Party’s confidential information as is required to be disclosed by law, any governmental or regulatory authority or by a court of competent jurisdiction. This Condition 22 shall survive termination or cancellation of the Contract.

23. Miscellaneous
(a) The Seller’s rights under these Conditions are in addition to any other rights which the Seller may have under the general law or otherwise.
(b) If the Buyer comprises two or more persons, their obligations are joint and several.
(c) The Buyer shall not assign, transfer, mortgage, charge, sub-contract, or otherwise dispose of or deal in any Contract or any rights or obligations (or both) (as applicable) thereunder in whole or in part without the Seller’s prior consent in writing. Any such action purported to be taken by the Buyer without the Seller’s prior consent in writing shall be void.
(d) The Seller may at any time assign, transfer, mortgage, charge, sub-contract or otherwise dispose of or deal in its rights or obligations (or both) (as applicable) under any Contract or any part of it to any person, firm or company.
(e) A waiver by the Seller of any right under the Contract or law will only be effective if it is in writing. Any failure or delay by the Seller in exercising, or any partial exercise by the Seller, of any right or remedy under the Contract or by law shall not constitute as a waiver of that or any other right or remedy. No single exercise by the Seller shall prevent the further exercise of that or any other right or remedy.
(f) Any waiver by the Seller of any breach of, or any default under, any provision of the Contract by the Buyer shall not be deemed a waiver of any subsequent breach or default and shall not way affect the other terms of the Contract.
(g) No term of the Contract shall be enforceable by any person that is not a party to it.
(h) This Condition 23 shall survive termination or cancellation of the Contract.
24. Notices

(a) Any notice to be given by the Buyer under these Conditions or any relevant Contract to the Seller shall be in writing and given by prepaid first class post or hand-delivered to Aflex Hose Limited, Bradley Business Park, Huddersfield, West Yorkshire, HD2 1GZ or to such other address or for the attention of such person as the Seller may notify to the Buyer.

(b) Any notice to be given by the Seller under these Conditions or any relevant Contract to the Buyer shall be in writing and given by prepaid first class post or hand-delivered to any address from which the Seller has received communications from the Buyer in connection with these Conditions or the Contract.

(c) Notices shall be deemed to have been received:

(i) if sent by prepaid first class post, two (2) Business Days after posting (exclusive of the day of posting); or

(ii) if delivered by hand, on the day of delivery.
BIOFLEX ULTRA
CORROFLON
CORROLINE+
PHARMALINE N&X
SMOOTHBORE
HYPERLINE FX
VISIFLON

UK
Dyson Wood Way
Bradley Business Park
Huddersfield
West Yorkshire, HD2 1GZ
Tel: +44 (0) 1422 317200

USA
32 Appletree Lane
Pipersville
Bucks County
Pa 18947
Tel: 215 - 766 - 1455
Fax: 215 - 766 - 1688