Oil & Petroleum Supply Chain
Hoses and hose assemblies - Expansion joints - Sheetings
www.trelleborg.com/industrialhose
Trelleborg Fluid Handling Solutions

Trelleborg Fluid Handling Solutions is part of Trelleborg Industrial Solutions.

With over 1000 employees and head office located in Clermont-Ferrand (France), Trelleborg Fluid Handling Solutions is a key leading player proposing high performance and optimal solutions for every situation with low and medium pressure Industrial Hose, Oil and Marine Hoses, Rubber Sheeting & Matting and Expansion Joint based on advanced polymer technology with production sites in France, Spain, Sweden and Brazil.

Trelleborg Fluid Handling Solutions offers a very large range of competitive products, solutions and services that meet your needs and requirements for all types of application for your different businesses.

► Your Partner for Fluid Handling

Trelleborg Fluid Handling Solutions is organized around 9 applications areas:

• Oil and Gas
• Construction and Mining Equipment
• Energy
• Chemical, Pharma and Food
• Agriculture and Farms
• Environment and Cleaning Waste Water
• Processing Equipment and Machine Tools
• Industrial Transportation
• Life Science

This enables better reactivity to adapt our offer to fast moving application or to design special solutions tailor-made for you. In all cases we follow closely legal requirements or standard evolutions.

► Our logistics platform: availability, reactivity and reliability

Over 5000 different items are stored in our 3 logistic platforms in Clermont-Ferrand (France), Trelleborg (Sweden) and Izarra (Spain) to meet your need for immediate and reliable delivery.

In order to help you to accelerate the development of your business, our service list also covers

► Compounding formulation
► Hose configuration modeling
► Finite element calculations
► Hose design
► Hose testing (pressure, bending, elongation resistance, ...)
► Hose certification (PED, ADR, REACH, ...)
► Handling and storage instructions
► Installation instruction and supports
► Hose inspection and refurbishment
► Hose failure analysis
► After sales support
► Training for sales team
► Training for assembly workshop operators
### Hose Range

<table>
<thead>
<tr>
<th>Product name/Advantages</th>
<th>ID mm</th>
<th>Temperature</th>
<th>Working pressure bar</th>
<th>Standard Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLUKLER/ VOLUKLER VR</td>
<td>16 to 25</td>
<td>- 25 to + 65 °C</td>
<td>16</td>
<td>EN 1360 EN 13483 Type 1</td>
</tr>
<tr>
<td>VOLUDEC</td>
<td>32 to 50</td>
<td>30 to + 55 °C</td>
<td>16</td>
<td>EN 1360 Type 1</td>
</tr>
<tr>
<td>PUMPADUKT D</td>
<td>19 to 200</td>
<td>40 to + 100 °C</td>
<td>16</td>
<td>EN 1761 EN 12115</td>
</tr>
<tr>
<td>BUTANE PROPANE E/E+</td>
<td>12.7 to 200</td>
<td>30 to + 100 °C</td>
<td>25</td>
<td>EN 1762 Type D/SD</td>
</tr>
<tr>
<td>TRELLFLEX OIL/CHEM</td>
<td>25 to 250</td>
<td>30 to + 100 °C</td>
<td>10/14</td>
<td>EN 13765 (Ex BS 5842)</td>
</tr>
<tr>
<td>TRELLOIL S/TRELLOI D</td>
<td>25 to 100</td>
<td>30 to + 80 °C</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>PUMPADUKT S</td>
<td>19 to 200</td>
<td>40 to + 100 °C</td>
<td>16</td>
<td>EN 12115 EN 1761</td>
</tr>
<tr>
<td>CHEMIKLER RANGE</td>
<td>13 to 150</td>
<td>30 to + 100 °C</td>
<td>16</td>
<td>EN 12115</td>
</tr>
<tr>
<td>MAGDALA</td>
<td>50 to 300</td>
<td>20 to + 82 °C</td>
<td>10/15</td>
<td>EN 1765 (Ex BS 1435) Type L10 L15</td>
</tr>
<tr>
<td>DOCKER</td>
<td>75 to 300</td>
<td>20 to + 82 °C</td>
<td>15</td>
<td>EN 1765 (Ex BS 1435) Type S15</td>
</tr>
<tr>
<td>TRELLOIL S EC/TRELLOI D EC</td>
<td>100 to 251</td>
<td>40 to + 100 °C</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>TRELFFLOAT</td>
<td>100 to 125</td>
<td>20 to + 80 °C</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>CHEMIKLER EPDM</td>
<td>19 to 100</td>
<td>30 to + 100 °C</td>
<td>10</td>
<td>EN 12115</td>
</tr>
<tr>
<td>PETROVAST/S 2096/SUPERVAST</td>
<td>9.5 to 51</td>
<td>Saturated steam: + 210 °C Superheated steam: + 230 °C Steam: 18 bar Water: 60 bar</td>
<td>EN ISO 6134 Type 2, class A</td>
<td></td>
</tr>
<tr>
<td>AEROKLER/AEROKLER F</td>
<td>19 to 100</td>
<td>40 to + 100 °C</td>
<td>20</td>
<td>EI 1529 ISO 1825</td>
</tr>
<tr>
<td>TRELFFLEX ROOF DRAIN</td>
<td>50 to 250</td>
<td>30 to + 100 °C</td>
<td>14</td>
<td>BS 5842</td>
</tr>
<tr>
<td>METAL HOSE</td>
<td>6 to 400</td>
<td>200 to + 200 °C</td>
<td>10/14</td>
<td>EN 10380</td>
</tr>
</tbody>
</table>
From *downstream*...

**Bunkering/Refinery**

**Ship to shore**

**TRELLEFLEX**
Suction and discharge of a large number of aggressive or corrosive chemicals, chemical waste, and all petroleum products with aromatic content up to 100%.

**Oil resistant grade**

**SHEETING & MATTING**
Electrical insulation. Oil resistant flooring. Fire resistant matting.

**Offshore floating supply hose**

**TRELLEFLOAT**
Rough, self floating hose for ship to rig purpose, as supply hose. Suitable for most medias like oil, diesel, water, cement, brine, baryte etc.

**Ship to shore/bunkering**

**MAGDALA/DOCKER TRELLOIL S/D EC**
Suction and/or discharge of petroleum products for dock or barge service. For refined products with aromatic up to 50%.

**Bitumen loading/unloading**

**METAL HOSE**
For loading/unloading bitumen tar, hot asphalt at 200°C.

**LPG unloading**

**BUTANE PROPANE E**
Discharge under pressure of petroleum products with aromatic content ≤ 50%. LPG delivery.

**Accessories and services available on demand:**
trolley, sling, rope lagging, insulating flange/gasket, dry break & safety break away couplings, floaters, inspections, etc.
Storage

**Floating roof tank**
TRELLFLEX ROOF DRAIN
Removal of rain water from the roof of an external floating roof tank.

**Bottom loading**
AEROKLER - PUMPADUKT S TRELLFLEX OIL/VR
Loading of petroleum products with aromatic content up to 50% and vapor recovery in bottom loading station.

**Tank truck**
PUMPADUKT - TRELLFLEX CHEMIKLER EPDM
Suction and discharge of petroleum products with aromatic content up to 50%. Loading and unloading of boats and road or rail tankers. Fixed installations in various industries.

**Steam**
PETROVAST - S2096 SUPERVAST
For heavy duty industrial cleaning and circulation of saturated and superheated steam in heating systems. Used in the petrochemical, building, shipyard, and chemical industry.

**Expansion joint**
TEGFLEX®
For all types of industrial applications, residential houses, industrial plants, industrial premises as well as heating and sanitary installations. Compensate for thermal elongation and misalignment. Isolate vibration, dampen noise and pressure surges coming from engines, pumps, turbines etc.

**Special features on demand:**
dry break & safety break away couplings, colour sleeve, whipcheck, etc.
To distribution...

Domestic

Tank truck
PUMPADUKT - TRELLEFLEX CHEMIKLER EPDM
Suction and discharge of petroleum products with aromatic content up to 50%.
Loading and unloading of boats and road or rail tankers. Fixed installations in various industries.

Petrol pump station
VOLUKLER/ VOLUKLER VR
For equipment of petrol pumps: regular, super and unleaded petrol and diesel oil.
With or without vapor recovery system.

Domestic fuel delivery
VOLUDEC
For hose reels on road tankers for metered delivery of household and automotive fuel.

Domestic gas delivery
BUTANE PROPANE E/E+
For reels on road tankers for LPG delivery.
Discharge under pressure of petroleum products with aromatic content ≤ 50%.

Accessories on demand:
dry break & safety break away couplings, swivel fittings, sleeves, nozzles, fittings, gaskets, etc.
Aircraft

Refueling/Defueling

AEROKLER C/F
Aircraft ground refuelling and/or defuelling with kerosene or petroleum fuel, aromatic content ≤ 50%. Fuel discharge under pressure.

Accessories on demand:
hose guard spring, abrasion rings, trolley, couplings, gaskets, etc.

Expansion joint

TEGUFLEX®
Flanged compensators used to:
- isolate vibration,
- dampen noise and pressure surges,
and installed on board of aircraft refuellers/dispensing vehicles.