

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.

►Our research and development centers through continuous innovations

Located in France and Brazil for Oil & Marine Hose, France and Sweden for Industrial Hose and Spain for Rubber Sheeting/Matting and Expansion Joint, our R&D centers provide innovating solutions for compound, finished products and customized solutions.

All production sites are well equipped with laboratory, test bench and calculation centers to provide ready-to-use solutions based on our experience of the applications and competences.

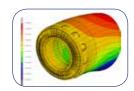
▶ Our couplings technical centers

With location all over Europe (Germany, Norway, Sweden and France), Brazil and China we offer a large range of rubber hose assembly, composite hose, Stainless Steel or PTFE hose with dedicated service (24 hours to 48 hours delivery) and accessories.

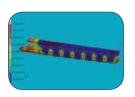
In order to help you to accelerate the development of your business, our service list also covers

- ► 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

Product name/Advanta	ges	ID mm	Temperature	Working pressure bar	Standard Approval
13/1 - ND - 16 bar - Ω - quartor/year TRELLEBORG - VOLUKLER	VOLUKLER / VOLUKLER VR → Good resistance to ageing. → Conductive inner tube.	16 to 25	- 25 to + 65 °C	16	EN 1360 EN 13483 Type 1
TRELLEBORG - VOLUDEC	VOLUDEC→ Highly flexible.→ Available in red or orange cover.	32 to 50	- 30 to + 55 °C	16	EN 1360 Type 1
TRELLEBORG PUMPADUKT D	PUMPADUKT D → Can be cut to length as required.	19 to 200	- 40 to + 100 °C	16	EN 1761 EN 12115
BUTANE PROPANE E	BUTANE PROPANE E/E+ → Highly flexible.	12.7 to 200	- 30 to + 100 °C	25	EN 1762 Type D/SD
YY / TRELESING TRELELEX OIL	TRELLFLEX OIL/CHEM → Both black and white oil can be carried.	25 to 250	- 30 to + 100 °C	10/14	EN 13765 (Ex BS 5842)
W TRELLEBORG TRELLOIL S	TRELLOIL S/TRELLOIL D → Highly flexible. → Good resistance to ageing.	25 to 100	- 30 to + 80 °C	10	-
TRELLEBORG PUMPADUKT S	PUMPADUKT S → Very robust and flexible.	19 to 200	- 40 to + 100 °C	16	EN 12115 EN 1761
TRELLEBORG CHEMIKLER UPE (SEE)	CHEMIKLER RANGE → Available with EPDM UPE or FEP tubes. → Good mechanical resistance.	13 to 150	- 30 to + 100 °C	16	EN 12115
TRELLEBORG MAGDALA	MAGDALA → Can be coiled flat. → FKM tube available.	50 to 300	- 20 to + 82 °C	10/15	EN 1765 (Ex BS 1435) Type L10 L15
EBORG DOCKER TRELLEBORG	DOCKER → Smooth inner tube. → FKM tube available. → Heavy duty.	75 to 300	- 20 to + 82 °C	15	EN 1765 (Ex BS 1435) Type S15
TRELLEBORG TRELLOIL S EC WP 20 BAR	TRELLOIL S EC/TRELLOIL D EC → Highly flexible. → Good resistance to ageing. → Conductive inner tube.	100 to 251	- 40 to + 100 °C	20	-
	TRELLFLOAT → Floating hose.	100 to 125	- 20 to + 80 °C	20	-
TRELLEBORG CHEMIKLER EPDM	CHEMIKLER EPDM → Good chemical resistance. → Robust.	19 to 100	- 30 to + 100 °C	10	EN 12115
Tracke Applied to the control of the	PETROVAST/S 2096/SUPERVAST → Multipurpose hose.	9.5 to 51	Saturated steam: + 210 °C Superheated steam: + 230 °C	Steam: 18 bar Water: 60 bar	EN ISO 6134 Type 2, class A
TRELLEBORG AEROKLER	AEROKLER/AEROKLER F → Light weight, flexible and abrasion resistant hose.	19 to 100	- 40 to + 100 °C	20	El 1529 ISO 1825
	TRELLFLEX ROOF DRAIN → 100 % aromatics resistance. → Natural negative buoyancy.	50 to 250	- 30 to + 100 °C	14	BS 5842
	METAL HOSE → Extreme temperatures.	6 to 400	- 200 to + 200 °C	10/14	EN 10380

From downstream...



Bunkering/Refinery

Ship to shore

TRELLFLEX

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

TRELLFLOAT

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



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.

Special features on demand:

colour sleeve, whipcheck, etc.

dry break & safety break away couplings,

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

TEGUFLEX®

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.





To distribution...



Domestic

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 installa-

Petrol pump station

VOLUKLER/ VOLUKLER VR

For equipement of petrol pumps: regular, super and unleaded petrol and diesel oil.

With or without vapor recovery system.

Domestic fuel delivery

VOLUDEC

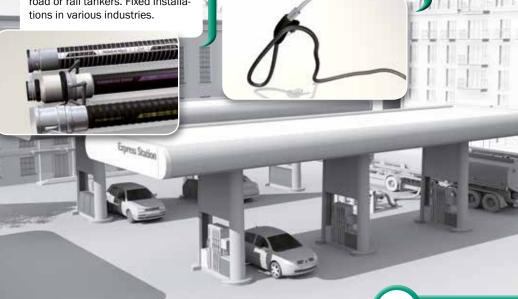
For hose reels on road tankers for metered delivery of household and automotive fuel.

Domestic gas delivery

BUTANE PROPANE E/E+

For reels on road tankers for LPG

Discharge under pressure of petroleum products with aromatic content ≤ 50 %.





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.





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