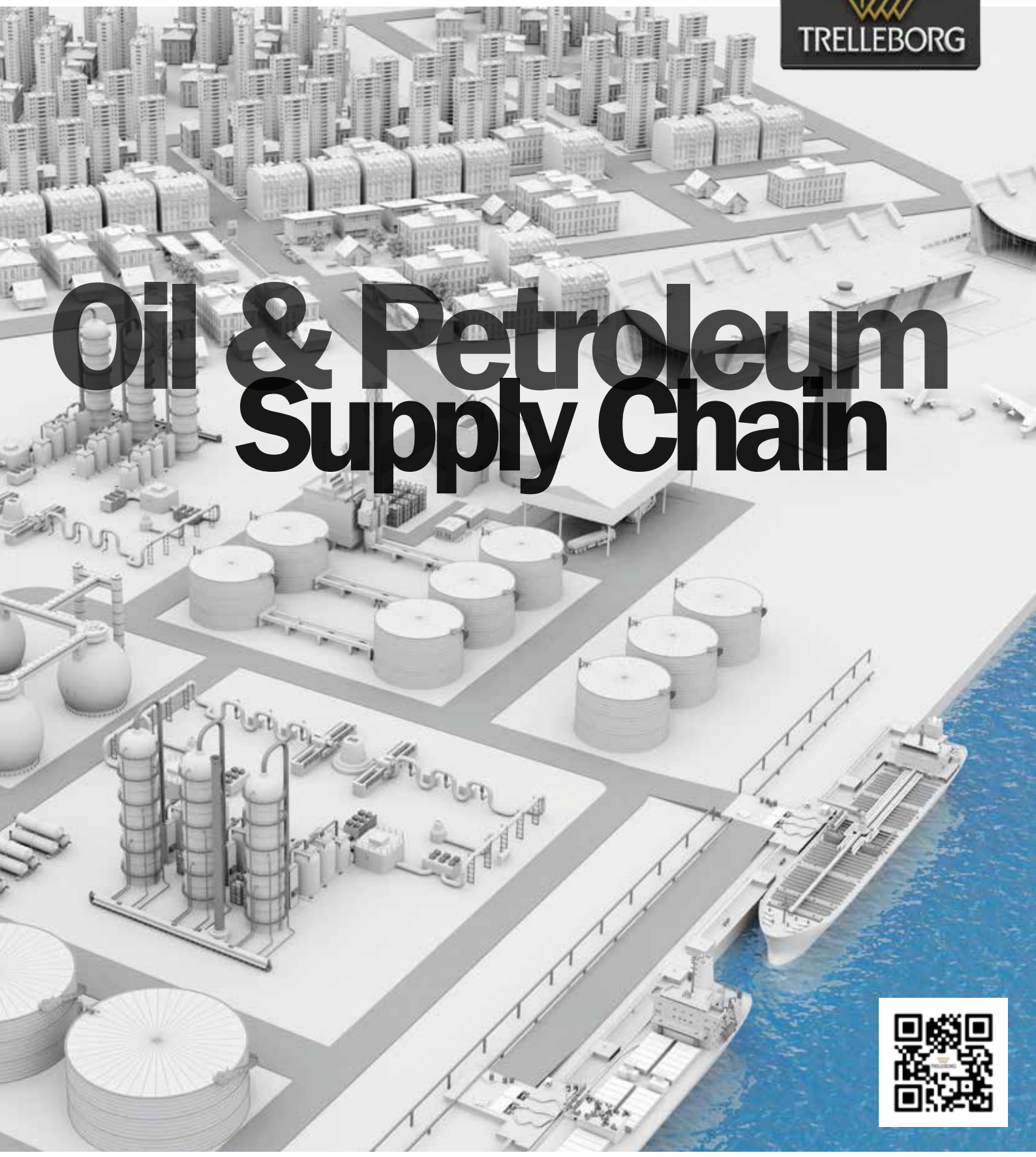


Oil & Petroleum Supply Chain
Hoses and hose assemblies - Expansion joints - Sheetings
www.trelleborg.com/fluidhandling

TRELLEBORG GROUP
LEADER IN POLYMER SOLUTIONS

Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative engineered solutions accelerate performance for customers in a sustainable way.



Trelleborg Coated Systems



Trelleborg Industrial Solutions



Trelleborg Offshore & Construction



Trelleborg Sealing Solutions



Trelleborg Wheel Systems

TRELLEBORG
FLUID HANDLING SOLUTIONS

Trelleborg Fluid Handling Solutions is part of the business area Trelleborg Industrial Solutions.

With over 1,000 employees and a head office located in Clermont-Ferrand in France, Trelleborg Fluid Handling Solutions is a leading developer, manufacturer and supplier of low and medium pressure industrial hoses, Oil & Gas hoses, rubber sheeting and matting and expansion joints based on advanced polymer technology.

We provide the optimum high performance solutions for every situation with production sites in France, Spain, Sweden and Turkey.

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



Industrial hoses



Oil & Gas hoses

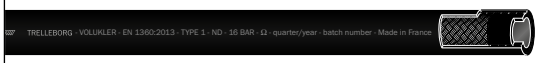
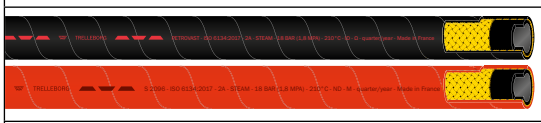
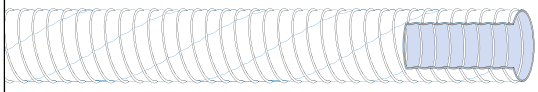
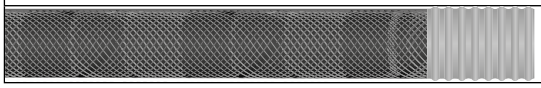


Expansion joints



Rubber sheeting and matting

Hose **range**

Product name/Advantages		ID mm	Temperature	Working pressure bar	Standard Approval
	**VOLUKLER/ VOLUKLER VR** ➔ Good resistance to ageing. ➔ Conductive inner tube.	16 to 25	- 30 to + 55 °C	16	EN 1360 EN 13483 Type 1
	**VOLUDEC** ➔ Highly flexible. ➔ Available in red.	32 to 50	- 30 to + 55 °C	16	EN 1360 Type 1
	**PUMPADUKT D** ➔ Can be cut to length as required. ➔ HNBR or FKM tube available.	19 to 100	- 40 to + 100 °C	16	EN 1761 EN 12115
	**BUTANE PROPANE E/E+** ➔ Highly flexible.	12.7 to 150	- 30 to + 100 °C	25	EN 1762 Type D/SD
	**TRELLFLEX OIL/CHEM** ➔ Both black and white oil can be carried.	25 to 250	- 30 to + 80 °C	10/14	EN 13765
	**TRELLOIL S/TRELLOIL D** ➔ Highly flexible. ➔ Good resistance to ageing.	25 to 100	- 30 to + 80 °C	10	-
	**PUMPADUKT S** ➔ Very robust and flexible. ➔ FKM tube available.	19 to 150	- 40 to + 100 °C	16	EN 12115 EN 1761
	**CHEMIKLER RANGE** ➔ Available with EPDM, UPE or FEP tubes. ➔ Good mechanical resistance.	13 to 150	- 40 to + 150 °C	16	EN 12115
	**MAGDALA** ➔ Can be coiled flat. ➔ HNBR or FKM tube available.	50 to 300	- 20 to + 82 °C	10/15	EN 1765 Type L10/L15
	**DOCKER** ➔ Smooth inner tube. ➔ HNBR or FKM tube available. ➔ Heavy duty.	75 to 400	- 20 to + 82 °C	15	EN 1765 Type S15
	**DOCK S** ➔ Highly flexible. ➔ Swaged flanges. ➔ HNBR or FKM tube available.	75 to 251	- 20 to + 82 °C	15	EN 1765 Type S15
	**TRELLOIL S EC/TRELLOIL D EC** ➔ Highly flexible. ➔ Good resistance to ageing. ➔ Conductive inner tube.	100 to 251	- 40 to + 100 °C	20	-
	**TRELLFLOAT** ➔ Integrated floating jacket.	100 to 125	- 20 to + 80 °C	20	-
	**CHEMIKLER EPDM** ➔ Good chemical resistance. ➔ Robust.	19 to 100	- 40 to + 100 °C	10	EN 12115
	**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/B
	**AEROKLER/AEROKLER F** ➔ Light weight, flexible and abrasion resistant hose.	19 to 100	- 40 to + 100 °C	20	EI 1529 ISO 1825
	**TRELLFLEX ROOF DRAIN** ➔ 100 % aromatics resistant. ➔ 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.



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 content up to 50 %. HNBR or FKM liner available for higher temperatures or 100 % aromatics.



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, floats, 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

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.



Special features on demand:

dry break & safety break away couplings, colour sleeve, whipcheck, 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 installations in various industries.



Petrol pump station

VOLUKLER - VOLUKLER VR
For equipement of petrol pumps: gasoline, unleaded petrol, diesel and biodiesel.
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.



Expansion joint

TEGUFLEX®
Flanged compensators used to:
- isolate vibration,
- dampen noise and pressure surges,

and installed on board of aircraft refuellers/dispensing vehicles.



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

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BU Fluid Handling Solutions, Trelleborg Industrie SAS, ZI La Combaude, Rue de Chantemerle, CS 10725, 63050 Clermont-Ferrand cedex 2, France
Tel +33 (0)4 73 25 81 00, Fax +33 (0)4 73 25 82 17, tes.serviceclients@trelleborg.com, www.trelleborg.com/fluidhandling