



TRELLEBORG
ENGINEERED SYSTEMS

Fluid transfer solutions

Agriculture & Food - Chemical & Petrochemical
Construction & Environment - Industrial Maintenance



Trelleborg group, leader of technical rubber

For over 100 years, Trelleborg is a global industrial company developing world-leading solution in advanced polymer technology.

Our research and development centers around the world are constantly searching for new and better solutions for sealing, damping and protecting.

Thanks to extensive knowledge of our customers and their industries, Trelleborg is able to provide unrivalled expertise and comprehensive application knowledge.

Trelleborg is a swedish group organized around 4 Business Areas:

Present in 40 countries, 25000 employees. Certified ISO 9001 and ISO 14001, Trelleborg are running over 100 factories.



Trelleborg Engineered Systems



Trelleborg Automotive



Trelleborg Wheel Systems



Trelleborg Sealing Systems

Trelleborg Industrial Hose is part of Trelleborg Engineered Systems

Trelleborg Industrial Hose

With over 750 employees and head office located in Clermont-Ferrand (France), Trelleborg is the european leader of low and medium pressure industrial hose based on polymer technology.

Trelleborg Industrial Hose offers a very large range of products which meets requirements for all types of application for your different businesses.

➔ Trelleborg Industrial Hose is organized around 4 application areas :

- Industrial Maintenance
- Agriculture & Food
- Chemical & Petrochemical
- Construction & Environment

This enables greater reactivity to adapt our offer to fast moving application and follow closely legal requirement or standard evolutions.



➔ Our logistic platform : availability/reactivity

Over 4000 different items are stored in our 26000 m² logistic platform in Clermont-Ferrand to meet your need for immediate delivery. Our shipping capacity can reach 150 tons a day.

➔ Research and development: continuous innovation

Our research and development centre provides innovating solutions based on our knowledge, our experience and competency.

- ➔ Development of raw materials in laboratory
- ➔ Development of finished products
- ➔ Development of production processes

Agriculture & Food

A complete range of rubber hoses and assemblies for liquid and solid food products transfer, **without phthalates** and complying with the most stringent requirements for contact with foodstuffs products (french and german legislations, FDA). **GUARANTEE HYGIENE, SAFETY, RELIABILITY**

- **Food** : Milk collection - Food transfer - Cleaning - Bulk tank truck discharge
- **Agriculture** : Spraying - Fish farm

Agriculture & Food range

Applications	Product name	Diameter range (mm)	WP (bar)	Max. vacuum (bar)	Temp. (C°)	
Milk collection						
	LACTADIAL		51 - 76	6	0.7	- 30 °C to + 80 °C
	CITERDIAL		25 - 150	6	0.9	- 30 °C to + 80 °C
Food transfer						
	CITERDIAL		25 - 150	6	0.9	- 30 °C to + 80 °C
	ALIKLER	Fats products 	25 - 150	10	0.9	- 30 °C to + 100 °C
	ALIKLER D	Fats products 	32 - 100	15	0.7	- 30 °C to + 100 °C
	MILLESIME		25 - 150	10	0.9	- 30 °C to + 100 °C
	TRELLVIN		38 - 75	10	0.7	- 30 °C to + 100 °C
	TRELLVIN L		38 - 150	10	-	- 30 °C to + 100 °C
	ALCODIAL		25 - 76	6	0.9	- 30 °C to + 80 °C
	VINTRELL		38 - 75	10	0.9	- 30 °C to + 80 °C
	VENDANGE		100 - 150	6	-	- 30 °C to + 80 °C
Cleaning						
	KLENET		13 - 25	10	-	- 20 °C to + 95 °C
	BIOCLEAN		7.9 - 15.9	60	-	- 20 °C to + 100 °C
	BIOVAST	Steam 	13 - 25	20 steam 6 bar	-	- 20 °C to + 100 °C steam 165 °C
	BERGALAV	Steam 	10 - 25	10	-	- 30 °C to + 160 °C
Bulk tank truck discharge						
	SUPERVAC AL		75 - 110	7	-	- 30 °C to + 80 °C
Agriculture : spraying						
	ALTIPLUS		8 - 25	60/40	-	- 30 °C to + 70 °C
	PULVEDUC		8 - 25	60/40	-	- 30 °C to + 70 °C
Agriculture : fish farm						
	FP 2007 FP 3010		254 - 457	2/3	-	- 40 °C to + 80 °C

Advantages of the crimped solution



- No retention area, preventing bacterial growth ⇔ crimping guarantees smoothness hose/coupling
- No risk of disconnection ⇔ no risk of product loss
- Elimination of prominent parts ⇔ safe and easy handling





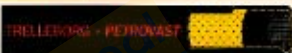






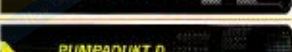


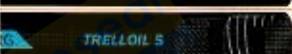


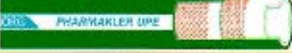

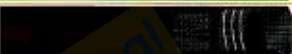







Chemical & Petrochemical

Whatever the chemical you want to transfer, there is a hose in Trelleborg range which characteristics (especially the nature of the tube, the essential selection criterion: EPDM, UPE, FEP, NBR, etc.) will meet all your needs and satisfy all your requirements.

Steam - Oil and petroleum transfers - Transfer of chemical and corrosive products

And upon request : dock applications, airplane refuelling, tar and asphalt ...

Chemical & Petrochemical range

Applications	Standard Approval	Product name	Diameter range (mm)	WP (bar)	Temp. (C°)		
Steam							
	EN 6134	TRELLVAST SBR		9.5 - 60	6	Water -40 °C to +120 °C Steam 164 °C/6 bar	
	EN 6134	PETROVAST EPDM		9.5 - 51	18 steam 60 water	Water -40 °C to +120 °C Saturated steam : 210 °C/18 bar Superheated steam : 230 °C	
	EN 6134	SUPERVAST EPDM		19 - 25	18 steam 60 water	Water -40 °C to +120 °C Saturated steam : 210 °C/18 bar Superheated steam : 230 °C	
Oil & Petroleum							
Petrol pumps							
	EN 1360	VOLUKLER NBR		16 - 19	16	-	-25 °C to +65 °C
Discharge							
		TRELLOIL D NBR		30 - 100	10	-	-30 °C to +80 °C
	EN 1360	VOLUDEC NBR		32 - 50	16	-	-25 °C to +80 °C
	EN 1762	BUTANE PROPANE E NBR		12.7 - 75	25	-	-30 °C to +100 °C
	EN 1761 EN 12115	PUMPADUKT D NBR		19 - 100	16	-	-40 °C to +100 °C
Tank truck suction and discharge							
	EN 1761	NTH NBR		25 - 100	10	0.9	-30 °C to +80 °C
	EN 1761 EN 12115	PUMPADUKT S NBR		19 - 150	16	0.9	-40 °C to +100 °C
		TRELLOIL S NBR		19 - 100	10	0.9	-30 °C to +80 °C
		HYDROKLER polypropylene		25 - 250	10	0.9	-40 °C to +100 °C
Transfer of chemical and corrosive products (tank truck suction and discharge)							
	EN 12115	PHARMAKLER UPE		25 - 75	10	0.9	-40 °C to +100 °C
	EN 12115	PHARMAKLER FEP		19 - 50	10	0.9	-40 °C to +150 °C
	EN 12115 *	CHEMIKLER EPDM		19 - 100	16	0.9	-40 °C to +100 °C
	EN 12115 *	CHEMIKLER UPE		19 - 200	16	0.9	-40 °C to +100 °C
	EN 12115	CHEMIKLER FEP		19 - 100	16	0.9	-40 °C to +150 °C
		TRANSACID UPE		25 - 100	10	0.8	-30 °C to +100 °C
	*	PERFORMER EPDM		50 - 400	10	0.9	-30 °C to +100 °C
		POLYKLER polypropylene		25 - 250	10	0.9	-40 °C to +100 °C

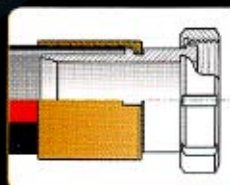
* Also available without helix for discharge only.



Crimping®



Notched ferrule® (stainless steel). This Trelleborg patented system makes the recovery of existing couplings easy.



All the couplings we recommend for the chemical industry (except for END FLEX® integral flanges), have a smooth shank: there is no risk of damage to the tube.

They have adaptable ends fully















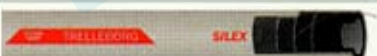


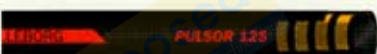


compatible with your existing couplings and are available in a wide choice of materials for each of your applications (bronze, aluminium, stainless steel, polypropylene or special coatings).

Construction & Environment

Result of long term cooperation between Trelleborg, end-users and OEMs, The Construction & Environment range has developed technical, specialized and innovative products.

Drain and sewer cleaning : specific products, high pressure resistance - **Industrial waste collection** : for fixed or mobile installations by suction, discharge - **Air protection** : hydraulic discharge of abrasive products - **Sandblasting and Mortar** : for spraying of mortar and mixed concrete as well as dry product - **Concrete placement** : high pressure and abrasive resistance - **Bulk tank truck discharge**

Construction & Environment range

Applications	Product name	Diameter range	WP (bar)	Max. vacuum bar	Temp. (C°)
Drain and sewer cleaning					
	CANALKLER 250 	13 - 38	250	-	- 30 °C to + 80 °C
	KLERIX 	13 - 32	200	-	- 30 °C to + 80 °C
	ASPIKLER N 	100 - 125	6	0.9	- 30 °C to + 80 °C
	ASSAINIX 	90 - 100	4	0.8	- 30 °C to + 60 °C
Industrial waste collection					
	ZEPHIR 	30 - 150	4	0.8	- 30 °C to + 70 °C
	TRELLVAC 	38 - 204	-	-	- 40 °C to + 90 °C
	ASPIVRAC S 	50 - 200	1.5	0.8	- 30 °C to + 80 °C
Air protection					
	PERFORMER AR10 	100 - 400	-	-	- 30 °C to + 70 °C
	PERFORMER 	25 - 350	-	-	- 30 °C to + 100 °C
Sandblasting and Mortar					
	SABLEX 	13 - 102	12	-	- 30 °C to + 70 °C
	SILEX 	20 - 125	10	-	- 30 °C to + 70 °C
	PROJECTOR 40 	25 - 89	10/20/40	-	- 30 °C to + 70 °C
Concrete pump and placement					
	PULSOR 125 	25 - 150	70	0.8	- 30 °C to + 80 °C
	PULSOR 200 	50 - 150	85	0.8	- 30 °C to + 80 °C
Bulk tank truck discharge					
	SUPERVRAC 	75 - 152	7	-	- 30 °C to + 90 °C



END FLEX® flange/BLOC END/safety clamps



END FLEX® flange system is specially designed for the "environment" PERFORMER AR or AD range and for the "chemical" PERFORMER CR or CD range.



BLOC END® coupling (with its special gasket), is specially designed for PERFORMER GL AD range.

Tube continuity : there is no contact between the product and the coupling's metal parts.

Industrial Maintenance

A complete range of hoses, assemblies and industrial ducting to meet all your industrial maintenance needs.

Water : discharge/suction/high pressure jetting/cooling systems - **Compressed air** - **Breathing air** - **Welding** : compliant with the relevant standard to maximize the user safety - **Oil** : for demanding fluid such as oil, fuel and solvents - **Solvents/Paints/Laquer and varnish** - **Hydraulic** : textile reinforced hydraulic hoses for special and demanding applications - **Industrial ducting** : a large range for all products conveyed

Industrial Maintenance range

Applications	Product name	Diameter range (mm)	WP (bar)	Max. vacuum (bar)	Temp. (C°)
Water					
	AQUEDUC/CASCADE	12.7 - 25.4	10	-	- 20 °C to + 100 °C
	STARKLER	12.7 - 100	20	-	- 30 °C to + 100 °C
	AQUAKLER	30 - 100	10	-	- 30 °C to + 60 °C
	COLORADO S	30 - 120	10	-	- 30 °C to + 100 °C
	TRELLFLAT	38 - 254	5	-	- 30 °C to + 90 °C
	AP BLEU/AP ROUGE	19 - 200	3 to 16	-	- 10 °C to + 40 °C
	IRRIBERG 15	50 - 254	15	-	- 30 °C to + 70 °C
	OSS IV	25 - 200	5	0.8	- 30 °C to + 60 °C
	OST	25 - 152	10	0.9	- 30 °C to + 60 °C
	OSM II	20 - 100	3	0.8	- 30 °C to + 60 °C
	OSL/OSV RS/OSX	20 - 150	2 to 10	0.8 to 0.9	- 10 °C to + 60 °C
	TRELLHOT	10 - 100	10	-	+ 130 °C
	KLERHEAT	13 - 50	10	-	- 30 °C to + 100 °C
	TRELLJET 561/581	6 - 13	400	-	- 40 °C to + 150 °C
	TRELLJET 560/540/580	8 - 13	650	-	- 40 °C to + 150 °C
	TRELLJET 681	10 - 13	200	-	- 40 °C to + 120 °C
Compressed air					
	MAXAIR	5 - 100	15	-	- 30 °C to + 70 °C
	NORMINES II	6 - 100	20	-	- 30 °C to + 70 °C
	SUPERMINES	7 - 80	20	-	- 30 °C to + 70 °C
	METALAIR	19 - 60	40	-	- 30 °C to + 95 °C
	AIRFLAT	19 - 152	20	-	- 20 °C to + 80 °C
	CRISAL AL	6 - 50	15	-	- 15 °C to + 60 °C
	VULCAIN +	6 - 12	20	-	- 40 °C to + 100 °C
Breathing air					
	AIR RESPIRABLE EN 14593	7.2 - 12.7	10	-	- 40 °C to + 120 °C
Welding					
	PLUTON 10/20 EN 559	6.3 - 20	20	-	- 30 °C to + 80 °C
	PLUTON JUMELÉ EN 559	6.3 - 10	20	-	- 30 °C to + 80 °C
	VULPANE EN 559	6.3 - 10	20	-	- 30 °C to + 80 °C
Oil					
	POLYOIL	6 - 25	20	-	- 30 °C to + 100 °C
	HYDRO'K	5 - 25	16	-	- 25 °C to + 100 °C
	HYDRO'ECO	3 - 10	10	-	- 30 °C to + 100 °C
	BOAT FUEL HOSE ISO 7840 A1	5 - 63	10	-	- 30 °C to + 100 °C
Solvents/Paints/Laquer and varnish					
	SOLVYKLER	6 - 25	20	-	- 30 °C to + 100 °C
	MULTIKLER	6 - 16	20	-	- 20 °C to + 100 °C
Hydraulic					
	DIN 1 TE	4.8 - 25.4	25 to 12	-	- 40 °C to + 100 °C
	DIN 2 TE	4.8 - 32	80 to 35	-	- 40 °C to + 100 °C
	DIN 3 TE	4.8 - 50.8	160 to 33	-	- 40 °C to + 100 °C
	SAE 100 R6	6.4 - 19	28 to 21	-	- 40 °C to + 100 °C
	SAE 100 R3	6.4 - 32	86 to 26	-	- 40 °C to + 100 °C
	SAE 100 R4	19 - 102	21 to 2	-	- 40 °C to + 100 °C
Industrial ducting (PVC, PUR, TPE)					
Range	KLEGAINE	12 - 1000	-	-	- 10 °C to + 650 °C