



Food industry

Fluid transfer solutions

Our hose assemblies solutions for food industry

www.trelleborg.com/fluidhandling





LIQUID FOODSTUFFS

reliability

resistance

hygiene

safety

TYPES OF ELASTOMERS

NR	Natural rubber
NBR	Nitrile rubber
SBR	Styrene Butadiene rubber
EPDM	Ethylene Propylene rubber
UPE	Ultra High Molecular Weight Polyethylene

HYGIENE

You can be confident that Trelleborg's hoses and assemblies are designed and manufactured with hygiene in mind. The smooth extruded inner tube resists the most common cleaning operations in your industry. Combined with our specially designed coupling system, no bacterial growth is possible on your hose assembly. The rubber material and all the other ingredients used in our food grade compounds have been selected to comply with the most stringent requirements for foodstuff contact. Both compounds and finished hose are compliant with applicable legislation and contain no phthalate nor Bisphenol A. Our covers (either red or blue) are non marking, keeping your floors clean.

RELIABILITY AND SAFETY

Rubber material is both flexible and robust. Our hoses can therefore absorb hammer-shocks, swift temperature changes have no

effect on their behaviour and they will keep flexible even at low temperatures with same pressure resistance.


Our specific swaged-on coupling systems are compatible with most commonly used fittings and will help prevent any bacterial growth as well as risk of disconnection. Our rubber coated nuts will prevent burns and guarantee optimal tightening by hand.

TRACEABILITY

All along each hose an embossed tape shows production week/year as well as batch number so we are able to trace all information relating to manufacturing. Each hose assemblies is also marked, engraved on one of the ferrule, with assembly date as well as its identification number and pressure test value.



WHATEVER LIQUID FOOD YOU NEED TO TRANSFER, TRELLEBORG HAS A HOSE THAT CAN MEET YOUR DEMANDS AND REQUIREMENTS

TRELLEBORG RANGE FOR FOOD INDUSTRY TRANSFERS IN PROCESS/PACKAGING/UNLOADING OPERATIONS/MILK COLLECTION		WP (bar)	Vacuum (bar)	Temp. (°C)	Inner tube	ID (mm)
CITERDIAL FLEXIBLE <ul style="list-style-type: none"> Highly flexible A class of its own 		6	0.9	+ 80	NR	25-150
LACTADIAL LIGHT <ul style="list-style-type: none"> 20% lighter than CITERDIAL 		6	0.7	+ 80	NR	51-80
ALCODIAL NEUTRAL <ul style="list-style-type: none"> Accept temporary alcohol stagnation 		10	0.9	+ 80	UPE	25-76
ALIKLER G2 FATTY FOODSTUFFS <ul style="list-style-type: none"> Robust 		10	0.9	+ 100	NBR	25-150
ALIKLER D FATTY FOODSTUFFS <ul style="list-style-type: none"> For higher pressure (15 bar) Will recover shape after accidental squeeze 		15	0.7	+ 100	NBR	32-100
MULTIDIAL UPE NEUTRAL <ul style="list-style-type: none"> Excellent chemical resistance 		10	0.9	+ 100	UPE	25-100
MILLESIME TEMPERATURE <ul style="list-style-type: none"> Cover has outstanding resistance to ageing 		10	0.9	+ 100	EPDM	25-150
TRELLVIN LIGHT <ul style="list-style-type: none"> Will recover its shape after accidental squeeze 		10	0.7	+ 100	EPDM	38-75
VINITRELL SLICKING <ul style="list-style-type: none"> Slick cover 		10	0.9	+ 80	NR	38-75



Viewer

DIN

SMS

MACON






CLAMP

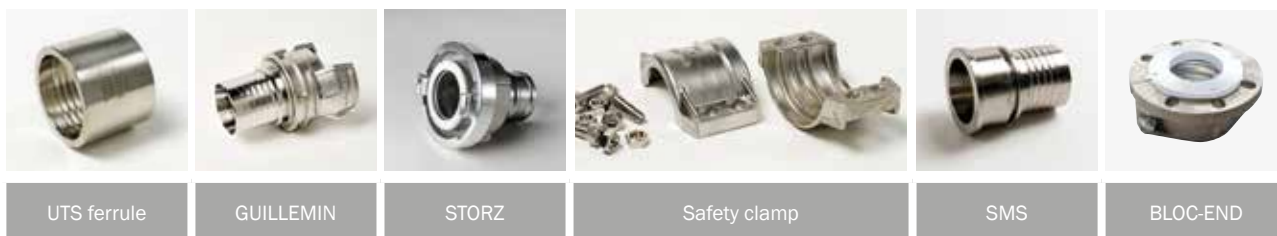
Rubber coated nut

SOLID FOODSTUFFS

comfortable handling

WHETHER YOU NEED TO TRANSFER SUGAR, MILK POWDER, FLOUR, ... TRELLEBORG HAS A HOSE THAT CAN MEET YOUR DEMANDS AND REQUIREMENTS

TRELLEBORG RANGE FOR FOOD INDUSTRY UNLOADING/TRANSFER OPERATIONS OF SOLID FOODSTUFFS		WP (bar)	Vacuum (bar)	Temp. (°C)	Inner tube	ID (mm)
SUPERVRAC AL EC/UNLOADING CONDUCTIVE TUBE <ul style="list-style-type: none"> Resistant to abrasion, light and flexible, can be rolled flat 		7	-	+ 80	NBR	75-125
TRELLVAC AL EC/SUCTION CONDUCTIVE TUBE <ul style="list-style-type: none"> Resistant to abrasion, easy to handle 		5	0.9	+ 80	NBR	51-150
PERFORMER AL EC/SUCTION CONDUCTIVE TUBE <ul style="list-style-type: none"> Resistant to abrasion, long lifespan 		10	0.9	+ 80	NBR	50-150
SUPERVRAC AL EC TRELLVAC AL EC PERFORMER AL EC ATEX	Checked and approved by INERIS (French notified body) for use in any ATEX areas 				ATEX	



UTS ferrule

GUILLEMIN

STORZ

Safety clamp

SMS

BLOC-END



CLEANING

TRELLEBORG COMPLETE RANGE FOR WASH DOWN AND STEAM CLEANING ALSO FOR TRANSFER OPERATIONS		WP (bar)	Vacuum (bar)	Temp. (°C)	Inner tube	ID (mm)
KLENET WATER • Standard water wash down		10	-	+ 95	NBR	13-25
	BERGALAV HOT WATER • Very good hose for reels • Occasional steam, max. 160°C		10	-	+ 160	EPDM
BIOVAST STEAM • Very robust • Oil and fats resistant • Water up to 20 bar/100°C • Steam up to 6 bar/165°C		20	-	+ 100	NBR	13-25
BIOCLEAN HIGH PRESSURE • For high pressures (60 bar/100°C)		60	-	+ 100	NBR	8-16



Female BSPP

Male BSPP

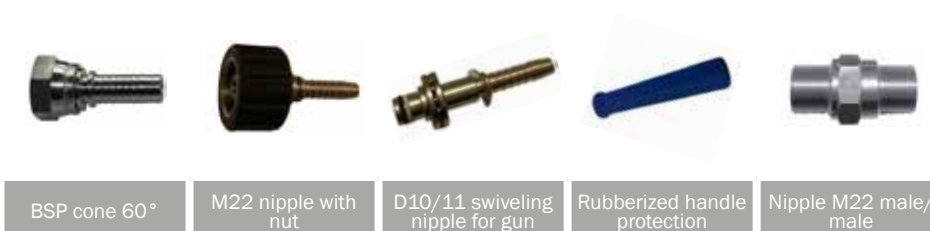
Swivel male BSPT

Anti-kinking spring and swivel coupling

Spray

Washing gun

TRELLEBORG COMPLEMENTARY RANGE FOR HIGH PRESSURE JETTING		WP (bar)	Vacuum (bar)	Temp. (°C)	Inner tube	ID (mm)
TRELLJET 681 AP VERY HIGH PRESSURE • For very high pressures (up to 200 bar/120°C) • Kink resistant		200	-	+ 120	NBR	10-13
					SBR	



BSP cone 60°

M22 nipple with nut

D10/11 swiveling nipple for gun

Rubberized handle protection

Nipple M22 male/male

Our rubber coated nuts prevent burns and guarantee optimal tightening by hand

Proprietary fitting system:
 • No risk of disconnection
 • No retention area, preventing bacterial growth



- PHthalates FREE**
- BiSPHENOL A FREE**
- REACH**


Each hose assembly has, engraved on ferrule, assembly date, ID number and pressure test value

Before first use, you should proceed as follows in order to prevent any alteration of your fluid.

- Fill hose with hot water (70°C to 80°C).
- Keep water inside for minimum 2 hours.
- Then, clean hose using any of the following cleaning processes which should prevent early ageing of your hoses.

△ ADVICE FOR CLEANING PROCESSES

- These recommendations are based on maximum of 2 cycles a day (with maximum 15 minutes in total for the chemical cleanings).
- **Every cleaning cycle must be immediately followed by a complete rinse.**
- For any other chemical or mix of chemicals, concentration, duration, temperature and frequency, please contact us to select the best hose for your application.

	Max duration in total	CITERDIAL LACTADIAL - ALCODIAL VENDANGE - VINITRELL	SUPERVRAC AL EC TRELLVAC AL EC	ALIKLER D ALIKLER G2 - BIOVAST BIOCLEAN - KLENET	MILLESIME TRELLVIN - BERGALAV MULTIDIAL UPE
Hot water	max 30 minutes	• max 90°C		• max 95°C	
Steam (open end circuit)	max 10 or 30 minutes	• max 110°C during max 10 minutes	• max 130°C during max 30 minutes		
Nitric acid	max 15 minutes	<ul style="list-style-type: none"> • 0.1% at max 85°C • 3% at room temperature 			
Phosphoric acid		<ul style="list-style-type: none"> • 1% at max 85°C • 3% at room temperature 			
Chlorinated products (hydrochloric acid, sodium hypochlorite...)		• 1% at max 70°C			
Sodium hydroxide		<ul style="list-style-type: none"> • 2% at max 80°C • 5% at room temp. 	<ul style="list-style-type: none"> • 2% at max 60°C • 5% at room temperature 	<ul style="list-style-type: none"> • 2% at max 80°C • 5% at room temp. 	
Hydrogen peroxide		• 3% at room temperature			<ul style="list-style-type: none"> • 1.5% at max 85°C • 3% at room temp.
Peracetic acid	• 0.5% at room temp.	• 1% at room temp.		• 1% at max 50°C	

△ REGULAR CHECKS

It is recommended to carry out regular checks on the hose (cover and tube) to make sure it is still safe of use as its original properties will eventually alter upon usage.

△ STORAGE

Keep away from (sun) light and heat. Only use pierced plugs when needed.

△ STAGNATION

Prohibited except with ALCODIAL or MULTIDIAL UPE, for limited duration.

⊘ BE CAREFUL

Do not use high pressure cleaning systems to wash inside the hose.

REGULATIONS AND STANDARDS

Compounds and hoses are all complying with latest regulations:

- European regulations 1935/2004 and 2023/2006 ;
- France: order of 5/8/2020 ;
- Germany: BfR recommendation XXI when applicable ;
- USA: FDA - 21 CFR 177.2600 and CFR 177.1520 for ALCODIAL.



Made in France

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 solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has annual sales of about SEK 33 billion (EUR 3.13 billion, USD 3.57 billion) in about 50 countries. The Group comprises three business areas: Trelleborg Industrial Solutions, Trelleborg Sealing Solutions and Trelleborg Wheel Systems. The Trelleborg share has been listed on the Stock Exchange since 1964 and is listed on Nasdaq Stockholm, Large Cap. www.trelleborg.com



Trelleborg Industrial Solutions



Trelleborg Sealing Solutions



Trelleborg Wheel Systems

TRELLEBORG FLUID HANDLING SOLUTIONS

With over 1,500 employees, located in Europe, Turkey, Australia and China, Trelleborg Fluid Handling Solutions is a key supplier focusing on fluid handling technologies as well as material protection in demanding areas.

The Trelleborg Fluid Handling team provides high performance solutions for oil and gas transfer for marine applications, fluid handling systems in the industrial applications and full material and equipment protection in the mining industry.

Trelleborg Fluid Handling Solutions develops, designs, manufactures low and medium pressure hoses with their fittings, oil & gas marine break-away couplings and hoses, filtration for LNG and industrial applications, rubber sheeting and matting, expansion joints and wear protection lining equipment based on advanced polymer technology.



Industrial hoses



Offshore oil and gas transfer



Oil and gas flow control



Rubber sheeting and matting



Expansion joints



Mining and mineral processing



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

WWW.TRELLEBORG.COM



Trelleborg Fluid Handling Solutions
Tel +33 (0)4 73 25 81 00
Email tes.serviceclients@trelleborg.com
www.linkedin.com/company/trelleborg-industrial-hoses
www.trelleborg.com/fluidhandling