

Food industry

Fluid transfer solutions

Our hose assemblies solutions for food industry

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 solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has annual sales of about SEK 34 billion (EUR 3.32 billion, USD 3.92 billion) in about 50 countries. The Group comprises five business areas: Trelleborg Coated Systems, Trelleborg Industrial Solutions, Trelleborg Offshore & Construction, 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 Coated Systems



Trelleborg Industrial Solutions



Trelleborg Offshore & Construction



Trelleborg Sealing Solutions



Trelleborg Wheel Systems

TRELLEBORG FLUID HANDLING SOLUTIONS

Trelleborg Fluid Handling Solutions is a unit of Trelleborg Industrial Solutions.

With over 1,000 employees and a head office located in Clermont-Ferrand, 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.

The Trelleborg fluids team provides high-performance solutions for every need. With production sites in France, Spain, Sweden, and Turkey, Trelleborg Fluid Handling Solutions offers a wide range of competitive products, solutions, and services that meet the needs and requirements of all types of industrial applications.



Industrial hoses



Oil & Gas hoses



Expansion joints



Rubber sheeting and matting



Trelleborg hoses and hose assemblies, with complete confidence

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.

REACH

Trelleborg Industrial Hose Commitment: REACH compliant, no SVHC, no CMR.

Since 2010, all industrial hoses made in our factories in France and Sweden are free from any substance of very high concern (SVHC).

For more information on REACH: <http://echa.europa.eu/>

Advice to users of Trelleborg food hoses

Before first use, you should proceed as follows:

- Fill hose with hot water (+ 70 °C to + 80 °C).
- Keep water inside for minimum 12 hours.
- Then, clean hose using any of the following cleaning processes.

**PHthalates
FREE**

ADVICE FOR CLEANING PROCESSES

1) Water/Steam

Hot water	Steam
CITERDIAL - LACTADIAL - ALCODIAL VENDANGE - VINITRELL SUPERVRAC AL EC - TRELLVAC AL EC	
90 °C maximum	110 °C during maximum 10 minutes
ALIKLER G2 - ALIKLER D MILLESIME - TRELLVIN	
95 °C maximum	130 °C during 30 minutes

2) Chemicals

Nitric acid (HNO₃) or product with additional nitric acid.

Maximum concentration:..... 0.1 % at 85 °C

..... 3 % at room temperature

Chlorine (Cl) or product with additional chlorine.

Maximum concentration:..... 1 % at maximum 70 °C

Sodium hydroxide (NaOH) or product with additional sodium hydroxide.

Maximum concentration:..... 2 % from 60 °C to 80 °C

..... 5 % at room temperature

Hydrogen peroxide (H₂O₂) or product with additional hydrogen peroxide.

Maximum concentration:..... 3 % at room temperature

MILLESIME only:..... 1.5 % at maximum 85 °C

EVERY CLEANING CYCLE MUST BE IMMEDIATELY FOLLOWED BY A COMPLETE RINSE

△ Storage

Keep away from (sun) light and heat.

Only use pierced plugs when needed.

△ Stagnation

With ALCODIAL only.

- 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: Brochure 1227, order of 9/11/1994 ;
- Germany: BfR recommendation XXI when applicable ;
- USA: FDA - 21 CFR 177.2600 and CFR 177.1520 for ALCODIAL ;
- and contain no phthalate, nor bisphenol A.



Made in France

Trelleborg range for food industry

WP (bar) Vacuum (bar) Temp. (°C) Inner tube ID (mm)

Transfers in process/Packaging/Unloading operations/Milk collection

CITERDIAL FLEXIBLE - Highly flexible - A class of its own		6	0.9	+ 80 °C	NR	25-150
LACTADIAL LIGHT 20% lighter than CITERDIAL		6	0.7	+ 80 °C	NR	51-80
ALCODIAL ALCOHOL Accept temporary alcohol stagnation		10	0.9	+ 80 °C	UPE	25-76
ALIKLER G2 FATTY FOODSTUFFS Robust		10	0.9	+ 100 °C	NBR	25-150
ALIKLER D FATTY FOODSTUFFS - For higher pressure (15 bar) - Will recover its shape after accidental squeeze		15	0.7	+ 100 °C	NBR	32-100
MILLESIME TEMPERATURE Cover has outstanding resistance to ageing		10	0.9	+ 100 °C	EPDM	25-150
TRELLVIN LIGHT Will recover its shape after accidental squeeze		10	0.7	+ 100 °C	EPDM	38-75
VINITRELL SLICKING Slick cover		10	0.9	+ 80 °C	NR	38-75

Unloading/transfer operations of solid foodstuffs

SUPERVRAC AL EC/UNLOADING CONDUCTIVE TUBE Resistant to abrasion, light and flexible, can be rolled flat		7	-	+ 80 °C	NBR	75-125
TRELLVAC AL EC/SUCTION CONDUCTIVE TUBE Resistant to abrasion, easy to handle		5	0.9	+ 80 °C	NBR	51-150

Food industry cleaning/High pressure cleaning/Transfers in process

KLENET WATER Standard water wash down		10	-	+ 95 °C	NBR	13-25
BERGALAV HOT WATER - Very good hose for reels - Occasional steam, max. 160 °C		10	-	+ 160 °C	EPDM	10-25
BIOVAST STEAM - Very robust - Oil and fats resistant - Water up to 20 bar/100 °C - Steam up to 6 bar/165 °C	 	20	-	+ 100 °C	NBR	13-25
BIOCLEAN HIGH PRESSURE For high pressures (60 bar/100 °C)		60	-	+ 100 °C	NBR	8-16
TRELLJET 681 AP HIGH PRESSURE - For very high pressures (up to 200 bar/120 °C) - Kink resistant		200	-	+ 120 °C	NBR SBR	10-13

NR Natural rubber
NBR Nitrile rubber
EPDM Ethylene Propylene rubber

UPE Ultra High Molecular Weight Polyethylene
SBR Styrene Butadiene rubber



hygiene

safety

comfortable
handling

resistance

PROCESS

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

UNLOADING / TRANSFER OPERATIONS

**CITERDIAL ■ LACTADIAL ■ ALCODIAL ■ ALIKLER G2 ■ ALIKLER D
MILLESIME ■ TRELLVIN ■ VINITRELL**



Viewer



DIN



SMS



MACON



CLAMP



Rubber coated nut

SOLID FOODSTUFFS

reliability

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

UNLOADING OPERATIONS ▪ **SUPERVRAC AL EC**

TRANSFER ▪ **TRELLVAC AL EC**

ATEX

SUPERVRAC AL EC and TRELLVAC AL EC are checked and
approved by INERIS (French notified body) for use in any ATEX
areas.



UTS ferrule



GUILLEMIN 1/2 sym.



STORZ



Safety clamp



SMS



COMPLETE RANGE FOR WASH DOWN AND STEAM CLEANING

KLENET ▪ **BERGALAV**

BIOVAST ▪ **BIOVAST RED**



Female BSP



Male BSP



Swivel male BSP



Anti-kinking spring and
swivel coupling



Spray

COMPLEMENTARY RANGE FOR HIGH PRESSURE JETTING

TRELLJET 681 AP ▪ **BIOCLEAR**



BSP
cone 60°



M22
Nipple with nut



D10/11
Swivelling nipple
for gun



Rubberized handle
protection



Nipple M22
Male/Male



CLEANING



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