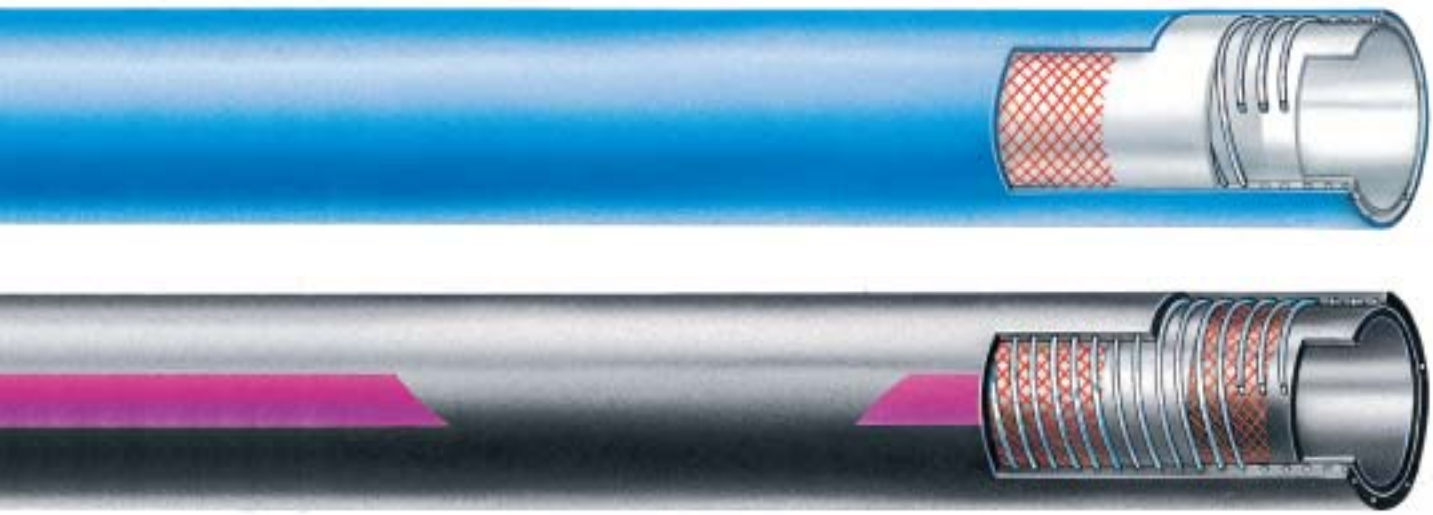
SPECIAL HOSES

Trelleborg Velp hoses are produced from the best hose building materials, incorporating wear, oil and heat resistant rubber compounds, such as NR, SBR, NBR, EPDM, Silicone, HNBR and Viton, which are chosen to precisely match the intended use of the hose . The pressure bearers consist of: cord materials made from rayon, polyester or aramide fibres, and components in the form of flanges, rings etc.
Production is directed from the project office and takes place on advanced production lines with automatic winding machines and computer controlled autoclaves for the vulcanization process. The entire process is monitored by our own integrated quality system, in which the standards used are much higher than normal.

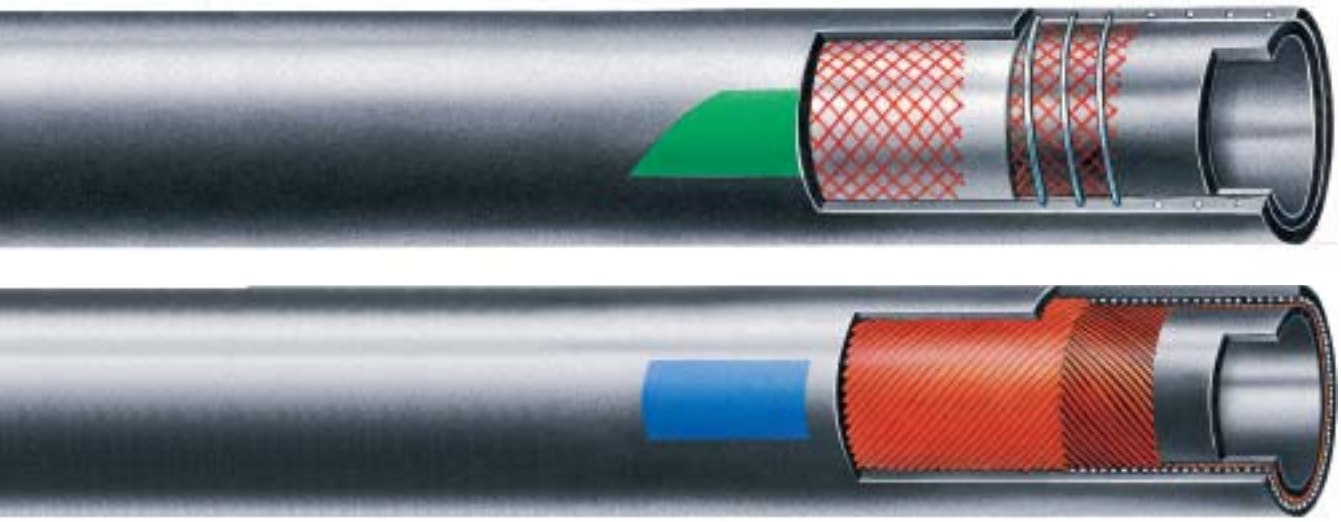
Foodgrade hose
Made from compounds which satisfy the strict requirements of the food processing industry.



Chemicals hose
Can be used for many chemical applications.

Diameter	Work pressure	Burst pressure	Vacuum	Tempature	Lenght
↓	atmosferisch ↓	atmosferisch ↓	max. 100%	from -50 °C up to 200 °C	up to 30 mtr.
DN100	max. 250 Bar	max. 1000 Bar			
DN100 ↓	atmospheric ↓	atmospheric ↓	max. 100%	from -50 °C up to 200 °C	up to 30 mtr.
DN500	max. 80 Bar	max. 320Bar			
DN500 ↓	atmospheric ↓	atmospheric ↓	max. 100%	from -50 °C up to200 °C	up to 30 mtr.
	max. 60 Bar	max. 240 Bar			

Wear-resistant suction-discharge hose
Can be used for all abrasive media.



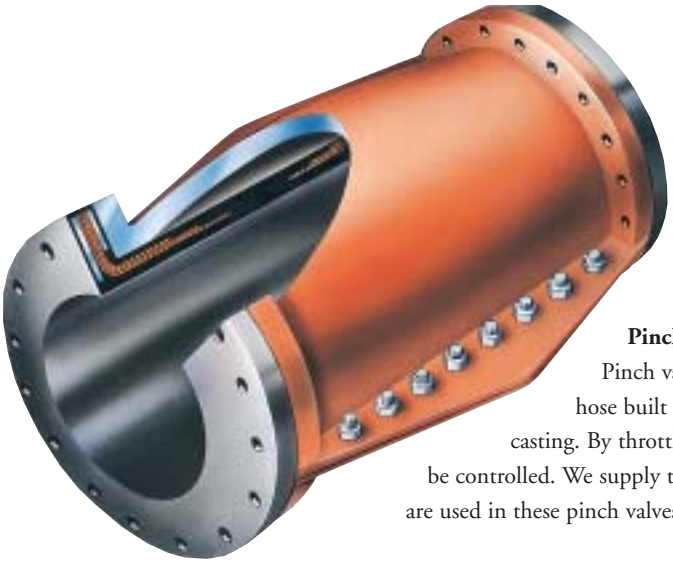
Water hose
Suitable for drinking water and many other water facilities.

FLEXIBLE JOINTS

Quick and efficient supply of custom-made, non-standard products, such as expansion joints in non-standard lengths and with non-standard flanges. Preformed rubber bends for suction or discharge applications with extra wear-resistant inner layers. Adapters made from wear-resistant elastomers with thick walls in almost every required shape (circle, ellipse, rectangle). Adapters with every diameter and length. Pinch valves with mechanical, hydraulic and/or air pressure flow control. Y-pieces for making wear-resistant tie-ins easy for all kinds of industrial application. Also hoses for drainage systems with vulcanized rings and/or spiral, which can stand vacuum and the pressure of soil.

Reducers
A reduction in the diameter of the pipe often causes turbulence in the flow and results in increased wear and tear. We produce wear-resistant reducers for this application in every required diameter and length.

Adapter
As well as reducers, we have various adapters in our range. These are flexible connections with, for example, a circular flange on one end and a rectangular flange on the other. Of course, we can produce any other shape you may require upon request. These adapters are made with extra thick walls using wear-resistant elastomers so that they have a long life.

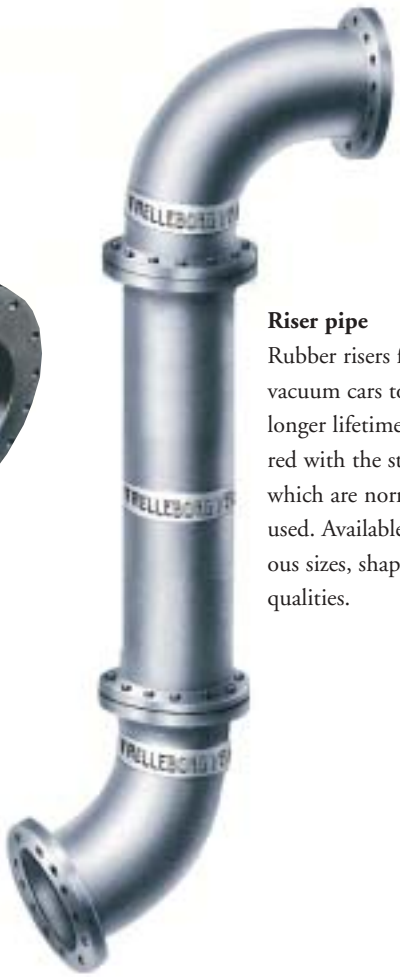


Pinch valve
Pinch valves consist of a flexible hose built into a steel or aluminium casting. By throttling the hose the flow can be controlled. We supply the flexible hoses which are used in these pinch valves.

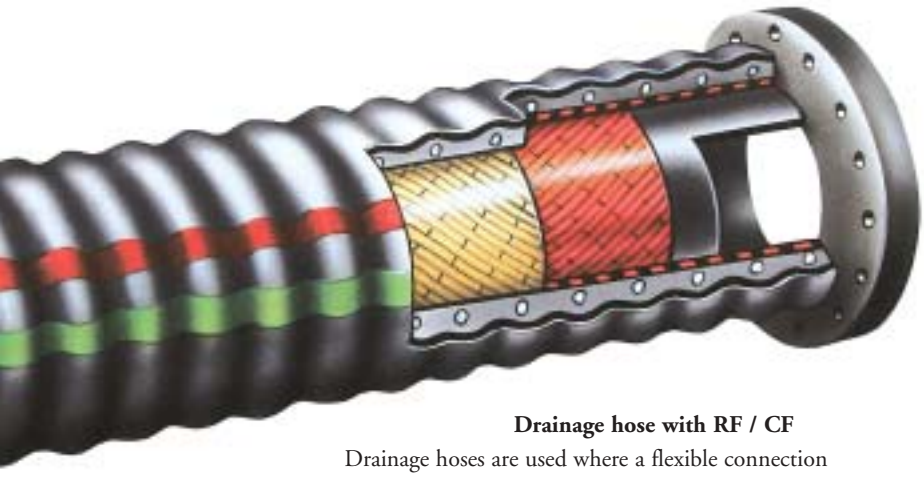
Flexible telescopic hose
Flexible telescopic transport hoses for abrasive media. Used for crossing over a gap between different loading /unloading heights. Can be supplied in various diameters and types.

Y-piece
Y-pieces are very sensitive to wear and tear. Building them completely from elastomers results in a flexible and wear-resistant construction.

Pre-formed bend
In many material transport systems the bends are sensitive to wear and tear. We supply an extensive range of pre-formed bends for both suction and discharge purposes, in various diameters and radii.



Riser pipe
Rubber risers for vacuum cars to give a longer lifetime, compared with the steel risers which are normally used. Available in various sizes, shapes and qualities.



Drainage hose with RF / CF
Drainage hoses are used where a flexible connection is essential. The drainage hoses are available in very large diameters and are fitted with integrated vulcanized rings and/or spirals to stand the pressure of the soil when buried and to stand vacuum conditions.

FLANGES

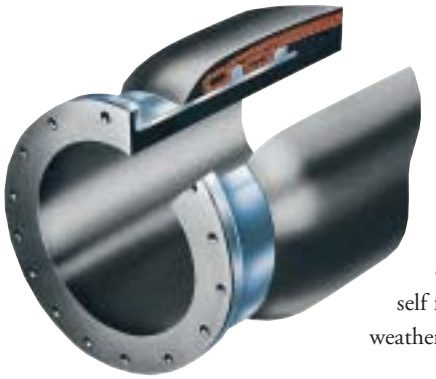
A reliable and safe transport hose is a balanced product, where all the components must fit together perfectly. The end piece is formed by the flanges, and we supply technically superior solutions for this application, which are suitable for a wide range of working pressures and all loads. Examples are : The rubber flange (no gasket required) with a steel or stainless steel backing ring for medium working pressures. The Double Action® flange; a form-fit flange construction for higher working pressures, and suitable for very high axial loads. Vulcanized flange couplings for every working pressure, with optional swivel flanges, in accordance with the DIN and ANSI norms, for easy fitting.

Rubber flange-steel backing flange

This flange is used for medium pressures and suction hoses. The rubber flange means that the hose can remain relatively short, starting from a maximum angle of curvature. Because the wear resistant rubber layer extends partly into the top edge of the flange, it forms a good seal with the flange connection itself.

Double Action® flange

The Double Action® flange is our most recent development. The main feature of this flange is the superior axial strength due to an integrated locking flange. A flange is able to accept high bending loads due to a thick integrated flange and backing flange and will not fall apart due to rust. The thick integrated flange and backing flange allow for a large radius in the flange neck, with no cutting forces on the cords.



Steel coupling vulcanized in

Our solid steel couplings are suitable for heavy duty applications. They can be made with the smallest possible pitch circle diameters and are vulcanized into the hose. These couplings are also secured with our safety strap system for extra safety. We use these couplings as standard in our self floating hoses so that you can work during bad weather without the risk of a defective line.

Swivel flange

The swivel flange is used with medium service pressures at points where the bolt holes in the mounting flanges are not precisely aligned. The swivel flange simplifies fitting between 2 fixed points.

Widened collar

There are many options for connecting hoses with straight ends. However, a big disadvantage of these hoses is that when a pipe is inserted it can form an obstruction in the hose. This can be prevented by using a hose with a widened collar. Because the ends are wider, the pipe which is not inserted does not cause any obstructions in the hose, resulting in an optimum flow. Collars can only be used for low pressure applications.

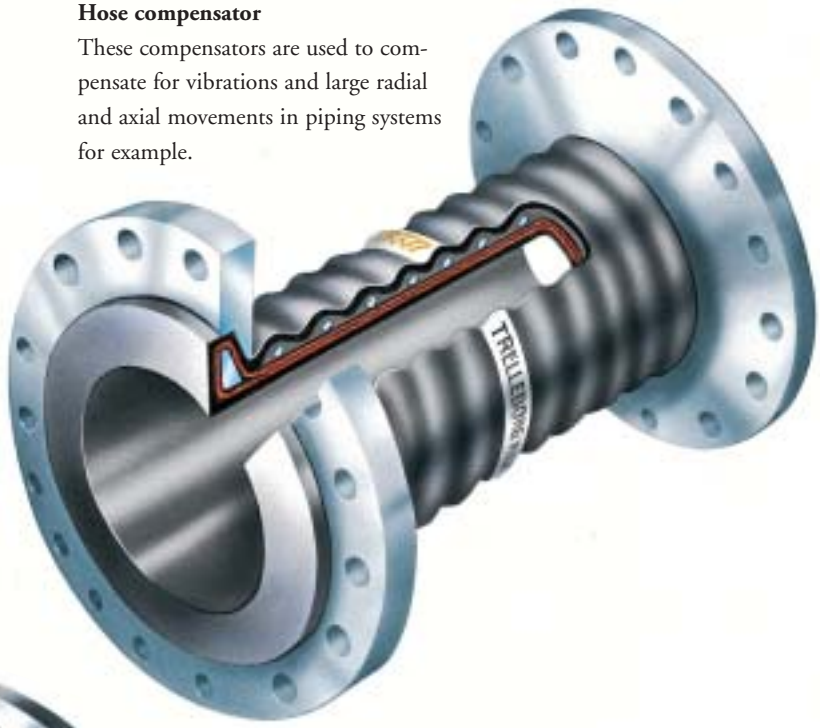
SPECIAL COMPENSATORS

Each compensator produced by Trelleborg Velp is the result of a sophisticated design process and advanced production methods. Everything about it has been thought out in more detail, so that even its standard quality is superior to comparable products. We supply products exactly according to your specifications for material composition, pressure and temperature requirements, level of resistance, dimensions, flange choice, safety, vibration and sound reduction, and whatever else you require. In order to guarantee that you receive the very best product, each delivery is subjected to a stringent final inspection by Trelleborg, which can be supplemented by whichever approval certificate you desire…

Expansion joint
Expansion joints/compensators with closed arch and RF/CF in accordance with DIN or ANSI norms.

Compensator
Compensator joints without flanges, but with collars, which can be made with an open or closed arch.

Hose compensator
These compensators are used to compensate for vibrations and large radial and axial movements in piping systems for example.



Compensator reducer
Compensator reducers are available with and without arches.

Compensator with double arch
A compensator with a double arch is used in circumstances where a single arch cannot sufficiently compensate for the displacement.

Heavy-duty compensator
These compensators can be used for high working pressures.