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Technical Definitions



Food Approval

All tubes that are approved for use in contact with milk are always marked with the glass and fork logo. This marking assures for the consumer, that the material is approved for use in contact with food.

DeLaval uses two approvals for rubber and four for PVC, worldwide.

This covers requirements in the markets DeLaval services and meets local legislation.

Food Approvals

- FDA (Food and Drug Administration), USA
- BgVV (Bundesinstituts für gesundheitlichen Verbraucherschutz und Veterinärmedizin), Germany.
- FI (VTT), local approval for Finland.
- CH Local approval for Switzerland.

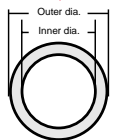
Stripes and marking

All DeLaval tubes are marked with our housemark and name. In addition to this our premium tubes are marked with stripes as well; orange stripes for rubber and blue stripes for PVC. The number of stripes indicates whether the tube is approved for food contact or not, ie: milk tube has two stripes and air/pulse tube has only one.

Product descriptions table

Set. number	Food approval	Inner diameter (mm)	Outer diameter (mm)	Length (mm)	Multiple quantity

Food approval
Milk tubes are marked with two stripes (orange for rubber tubes & blue for PVC tubes). They are also marked with the international symbol for food approval.
Air and pulse tubes are marked with only one stripe and do not have any food approval.



Multiple quantity
The multiple you can order an item in. If the multiple quantity is 25 you can order 25, 50, 75, 100 etc.

Length
It is easy to measure the length:
All tubes with an inner diameter of less than 10mm have a distance of 150mm between the DeLaval logos.
All tubes with an inner diameter of more than 10mm have a distance of 250mm between the DeLaval logos.

Replacement

The condition of tubes is important for productivity.

It is not possible to mount just any kind of tubing in a milking parlour and meet specifications. In addition to the tubing being of a material which endures milk, detergents and the tough environment in a milking parlour, it must have characteristics including mechanical strength, pliability and elasticity. For example, pulse tubes should not puncture and allow air admission, milk tubes should not kink and limit the flow of milk.

Furthermore, the milk tubes must be designed to meet local legislation including food contact approval. e.g. BgVV. DeLaval has an entire range of approved tubing which is manufactured using carefully developed and designed materials. As with DeLaval Original Liners, "time in use" plays an essential role in the performance of the tubes. This means always replace the tubes before they lose their elasticity and before bacteria deposits get a foothold and affect milk quality.

The simplest and most effective method is by routinely replacing within the recommended time frames.

DeLaval recommends replacing milk tubes and short pulse tubes at least once per year. All other tubes should be replaced at least every other year.



The number of bacteria in milk can increase rapidly if milk tubes which are too old are used.

Pulse tubes which are in top condition ensure an effective teat massage which stimulates the cow into producing a high quantity of milk



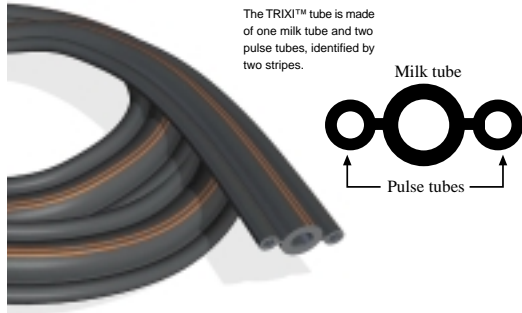
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Tubing Product range



Product Range Milk tubes



The TRIXI™ tube is made of one milk tube and two pulse tubes, identified by two stripes.

TRIXI™ Tube

"All in one" tube for excellent tube alignment and optimal milking performance.

The TRIXI tube from DeLaval is a unique "all in one" solution - a centrally placed milk tube with two pulse tubes on either side.

The TRIXI tube facilitates excellent tube alignment, which is necessary for optimal milking performance and maximum milk yield. As the cow cannot place her hoof in between the milk and pulse tubes, the risk of "fall-offs" will be significantly reduced. The tube is produced of high quality rubber material with high weather and ageing resistance. The rubber material is designed to reduce the rubber taste that can transfer to the milk in some compounds. This material is food grade approved according to BgVV regulations.

Premium Rubber Milk Tube

The premium choice for all farmers

The premium rubber tube is made of high quality rubber material, formulated to resist milk fat, weather and dairy hygiene detergents. This rubber material is also designed to reduce the rubber taste that can transfer to the milk in some compounds, and the smooth inner and outer surfaces assure good cleanability and enable a low bacteria count to be maintained. The tube has food approval according to BgVV regulations and it is specially designed to fit the DeLaval range of equipment.

The optimal dimensions and material compound ensures a high performing milk tube!

Standard Rubber Milk Tube

The rubber tube is available in many different dimensions and the material is food approved according to BgVV regulations. The tube can be bought in coils.

Premium PVC Milk Tube

A transparent milk tube for all needs.

The DeLaval transparent milk tube is made from optimal grade PVC. This material is food grade according to FDA (USA) regulations. The tube is transparent and slightly blue in colour and is marked with two blue stripes.

The PVC has smooth inner and outer surfaces which enable good cleanability and a low bacteria count to be maintained. The inner diameter of this tube is 14mm to suit all connections. Optimal dimensions ensure that there is no collapse under vacuum.

Product Range Air tubes

Premium Rubber Twin Pulse Tube

A high quality twin pulse tube is a pre-requisite to carry the pulsation signals effectively from the pulsator to the claw.

To ensure maximum milking performance, DeLaval pulse tubes are specially designed to carry vacuum from the pulsator to the claw.

The tubes specifically designed to minimise the risk of collapse and are made of a high quality material to provide high weather and ageing resistance.

The tube can be bought in coils (metre) or in pieces.

Basic/Standard Twin Pulse Tube

Two options of twin pulse tube are available: In Standard rubber and in basic PVC.

Premium Rubber Air/Pulse Tube

The optimal choice to carry vacuum from the pulsator to the claw.

DeLaval air tubes cover all requirements for transporting vacuum in milking equipment.

The tubes have optimal dimensions and are made from a high quality formula, with high weather and ageing resistant properties. Covering a range of short pulse tubes, it is important to make sure you have the right length of short pulse tube for your combination of liner and cluster to maximise milking performance.

