



Choosing the Correct Dairy Hose For Your Milk Intake & Process Areas

If you run or manage a dairy, you'll have enough to worry about with price volatility and rising production costs. The last thing you need is to have to a hose failure that could potentially waste thousands of litres of milk on top of that.

Worse, if a defective hose leads to contamination, the potential results could be catastrophic – fines, recall logistics, wasted product, and brand reputational damage impacting sales long-term. These issues can be avoided through the careful, upfront choice of the right hose for the job.

How do you make sure that you have the right dairy hose?

In this guide we'll look at what you should consider, paying particular attention to the important elements, such as the different types of products passing through the dairy hose, their temperatures, and required pressures.



Understanding Your Needs

First, it's important to choose a trusted and reputable dairy hose supplier. Our [hoses](#) are expertly designed to be suitable for the entire process.



When choosing the correct Dairy Hose there are a few important aspects to keep in mind, such as:

- The type of Media being conveyed (products that will pass through the hose)
- The Working Temperature and Working Pressure required, along with Cleaning Cycles.
- To ensure the hose lining is suitable in terms of chemical resistance.

All [Flextech](#) dairy hoses have a robust 10-bar or 16-bar working pressure and 30-48 bar burst pressure making them perfect for the delivery of fatty foods and dairy products.

There is a vast variety of hoses available on the market, all differing in quality, price point and purpose, so it's crucial you choose the right one for your application. Opting for an off-the-shelf option might leave you with the wrong type of hose, impacting the quality of your end product.



Generally, there will be three types of hoses needed for the production and transportation of dairy products. These are:

Delivery hoses	Conveying Milk and other Foodstuffs
Suction and delivery hoses	Used for Delivery and Vacuum
Non-crush hoses	Used in Tanker Bay and Process where possible risk of hoses being crushed

At [Flextech](#), we specialise in the production of hoses that are suitable for the entire process. Our line of [Dairyflex®](#) hoses are NBR-lined food and dairy hoses, designed specifically for the dairy industry, conform to FDA, CFR, BfR, EC 1935-2004, ADI free along with other recognised standards, to protect product quality and avoid any form of contamination.



What Are The Key Aspects Of A Milk And Dairy Hose?

Dairy hoses are specifically designed to collect and transport dairy products, and can also be used for the gathering and transportation of animal and vegetable fats and oils. Depending on the type of media passing through the hose, other inner liners will be recommended depending on product compatibility.

The most popular hose liner is nitrile butadiene rubber (NBR), which is widely used in the industry thanks to its resistance to fatty foods. It's also crucial that the correct fittings are used; our **Shawlok™** fittings are designed with hygiene in mind to specifically eliminate any form of crevices or bug traps, offering a perfect fit to ensure your product isn't affected by any external contaminants.



Flextech designed four key hose variants to provide application-specific assemblies.

Use cases for the Dairyflex® range are:		
Simple Delivery Applications	T5716	Dairyflex® Food & Dairy Delivery hose
Vacuum Applications	T5719	Dairyflex® Food & Dairy Suction & Delivery hose
Smaller Dairy Production Plants	T5715L	Dairyflex® Lite Easy Operation Food & Dairy Suction & Delivery Hose
Taking the Product from Truck to Tanker	T5718C	Dairyflex® Crush Resistant Food & Dairy Suction & Delivery Hose

Dairyflex® hoses are lightweight for ease of use. We offer both Convuluted and Smooth external cover types designed for flexibility and durability. All hoses come with a NBR rubber cover, which is resistant to ozone, abrasion and weathering. The **Dairyflex® Lite** is the only hose we produce that comes with a UPE cover, an additional thermoplastic layer designed for reducing the coefficient of friction and making the hoses easier to manoeuvre.



Here are our Application Rules:

- Be mindful of Operating Temperatures and Pressures along with other Cleaning Cycles and Conditions.
- Consider the External Environment. Mechanical damage such as abrasion from Floors or Damage from Vehicles running over flexibles, or exposure to external chemical attack.
- Don't exceed overbending of the hose radius, don't compress or stress hoses.
- Use end caps or plugs on your hoses to protect them from insects and external contaminants.

The Different Types of Dairy Hoses On The Market And How To Choose The Right One

The dairy hose market has evolved over the years, and it is now possible to find hoses that meet all the right criteria, minimising the risk of contamination and requiring as little maintenance as possible.

While most hoses have similar features, it's good to keep in mind that every aspect of production will have slightly different requirements. For instance, [the Dairyflex® Food & Dairy Delivery Hose](#) is perfect for transporting fatty foods and dairy produce, supporting a temperature range of -40°c to +100°c (Intermittent 130°c).

If, however, you require a more lightweight option for your dairy operation, then [the Dairyflex® Lite Suction & Delivery Hose](#) is a more suitable alternative. Offering increased flexibility and ease of use, this 10 bar milk and dairy hose is the perfect flexible solution for many Dairy Product Applications.

When looking for a new dairy hose, keep in mind the STAMPED method, which will help you filter through the many options available. This is an acronym that stands for:

Size (Bore)	Internal diameter and length
Temperature	Of the product transferred and the external atmosphere
Application	What the required hose will be used for
Media	What is being transferred?
Pressure	Of the product being transferred
Ends	Hose fitting type
Delivery	How soon is the product needed?



This will allow you to filter out unsuitable hoses, making it easier to select the right hose for your dairy applications. At [Flextech](#), all our food and drink hoses adhere to and meet FDA and EU standards and made from non-toxic compounds that will prevent harmful chemical reactions. These are odourless and tasteless, fundamental to preserve the flavour and profile of the milk and dairy products passing through them.

Our [Dairyflex®](#) range of hoses are manufactured to the following standards which also adhere to BRCGS requirements:

FDA 21 CFR177.2600
BfR D.M.21/03/73
ADI free
EC 1935/2004
Phthalate-free
3-A Sanitary Standard



So, when it comes to choosing the right hose for your dairy related products, make sure to opt for materials that are flexible, resistant and, most importantly, made from non-toxic compounds to avoid contaminating your milk and dairy produce.

We've thought of everything to ensure a premium quality product that will give you years of good use and streamline your processes for smooth and efficient operation – and most of all, superb quality dairy products.



About Flextech

At **Flextech**, we supply to some of the biggest dairy producers in the UK. We have made it our mission to create a range of dairy and milk hoses that are FDA and EC compliant and suitable for use in various stages of the milk harvesting and transport process. Our high-quality, hygienically swaged food and dairy hoses simultaneously and drastically reduce bacterial growth and contamination, improving the health and safety of the working environment for employees, and ensuring the longevity of the hose assemblies.

To browse the **Dairyflex**[®] range,
visit: <https://www.flextechhose.co.uk/brands/dairyflex>

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