



**Dpstar Group**



# Heated Hoses




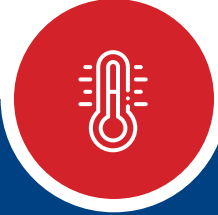


Electrically Heated  
Transport Systems



### Electrically Heated Transport Systems

Dpstar is one of the leading suppliers of heated hoses / flexible heated lines. Whether freeze prevention or temperature maintenance: We ensure transport of liquid and gaseous media without loss of temperature. They are customized to reach the required temperature and match specifications.

There are different temperature ranges up to 100 °C, 200 °C, 250 °C or 450 °C.

 <h3>Benefits</h3>	 <p>Designed &amp; manufactured for your customized applications</p>	 <p>In-house manufactured heating cables for best quality &amp; longer lifespan</p>
 <p>Up to 450 °C for a variety of applications</p>	 <p>High flexibility for applications where a small bending radius is required</p>	 <p>With temperature controller (resistance heating cables / heating tapes) or self-regulating (trace heaters)</p>

### Advantages of flexible heated hoses

Concerning electrical heat tracing, Dpstar offers various possibilities to heat containers, pipes, tanks or vessels. Flexible transport without temperature loss of liquids and gases is also very important. Each system with heated hoses is tailor-made and convinces with high flexibility and load capacity.

### This Applies To A Wide Range Of Substances In Robots & Moving Equipment

Versatile application: Whether in use on moving production unit components, in mobile applications (e.g. gas analysis) or for balancing offset piping or to decouple production unit components (e.g. dosing technology).



Grease



Oil



Wax



Water



Resin



Bitumen



Food

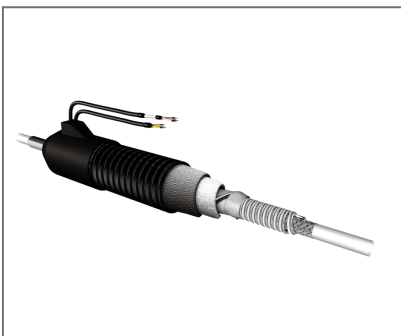


Paint

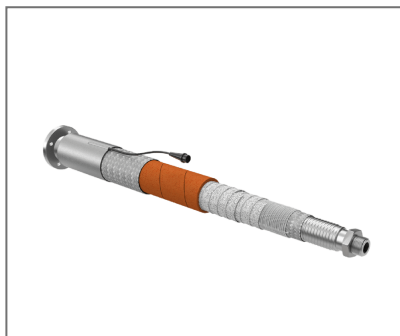
### Design of a Heated Hose

A Dpstar heated hose is individually designed and produced according to customer specifications. Our in-house development department will be pleased to implement your requirements and find a tailor-made solution. Heated hoses always consists of an inner liner, temperature sensor, heating conductor, insulation, outer jacket and an end cap. By means of a temperature sensor the information about the temperature can be processed and the heated hose can be operated via controller. They are therefore a component of the entire heated hose. Whether fittings are installed depends on the application, the operating pressure and temperature. In addition to the connection fittings, hose- or pipe protrusions are also possible. Of course, eltherm offers a flexible heated hose that can be used in hazardous areas.

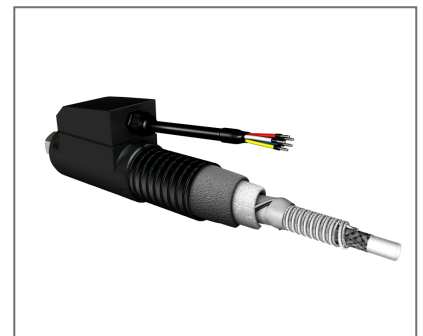
You can choose from various materials according to your requirements. For example an outer jacket as a corrugated metal hose made of stainless steel is mechanically more robust and for higher temperatures. A silicone outer jacket is washable and for more flexibility and smaller bending radius. We focus on individuality, each heated hose is designed and produced according to specific customer specifications. For high-pressure applications, fluoropolymer and polyamide materials are used. With our products we can offer a solution for almost every application. Each heated hose line has an integrated trace heater (regulated or self-regulated) and thus ensures optimum heating of the medium.



Heated Sample Lines

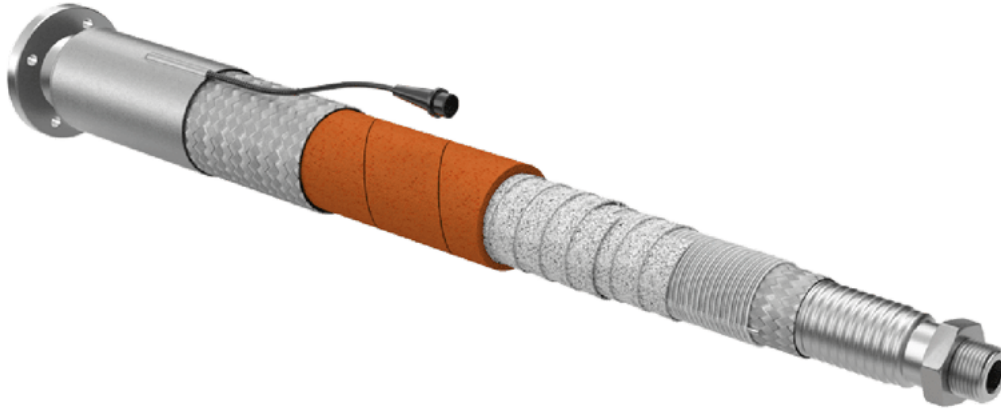


Heated Hoses for Loading & Unloading



Heated Pressure Hoses

### Heated Hoses for Loading & Unloading (up to 250 °C)



DN25-DN100 - Maintain temperatures and enable loading/unloading of oil, fat, resins, paint, bitumen, adhesives, compounds and foods without temperature loss. Our speciality: flexible and yet robust design for pressures up to 50 bar and temperatures to 250 °C. Dpstar loading/unloading systems are available with approval for hazardous areas.

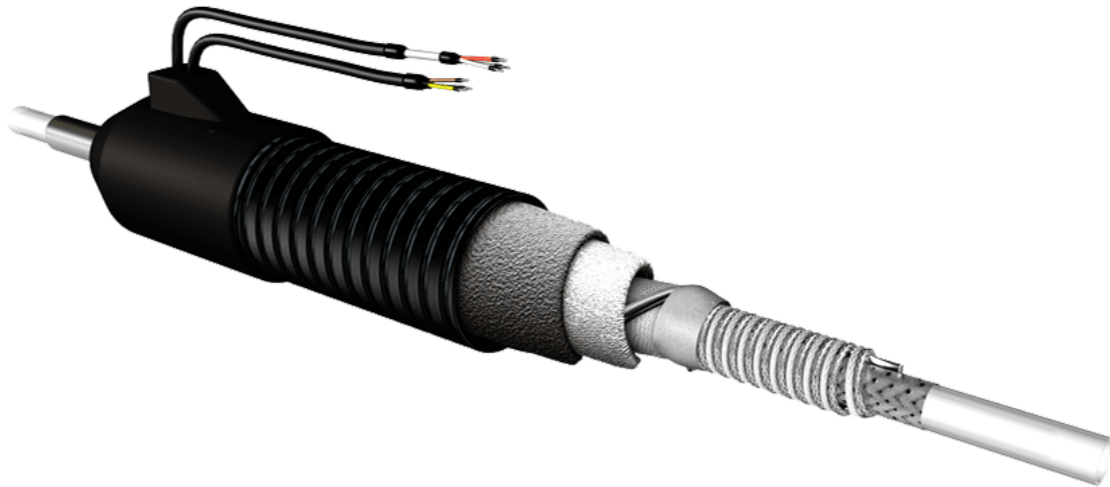
#### Technical Benefits

- High performance through close, tight coiling of heating cable with spacer
- Homogenous heat transfer
- Longer lifespan and reliable operation
- High quality standard
- Safety against hot spots

#### Technical Data

Nominal Temperature	up to 250°C
Voltage	25 - 500 V
Operating Pressure	up to 50 bar
Diameters	DN 25 up to DN 100

### Heated Sample Lines (up to 450 °C)



Heated sample lines are used to transport gaseous media from the sampling point to an analytical measuring device. In most cases they are permanently installed in plants or in the form of portable systems. A main field of application is the emission monitoring required by the authorities, e.g. in power plants or waste incineration plants. Our heated analysis lines are also used in process analysis in various branches of industry, e.g.: the chemical and petrochemical industry, where one of their functions is the monitoring and control of combustion processes. Heated analysis lines are also used in engine test benches for combustion engines.

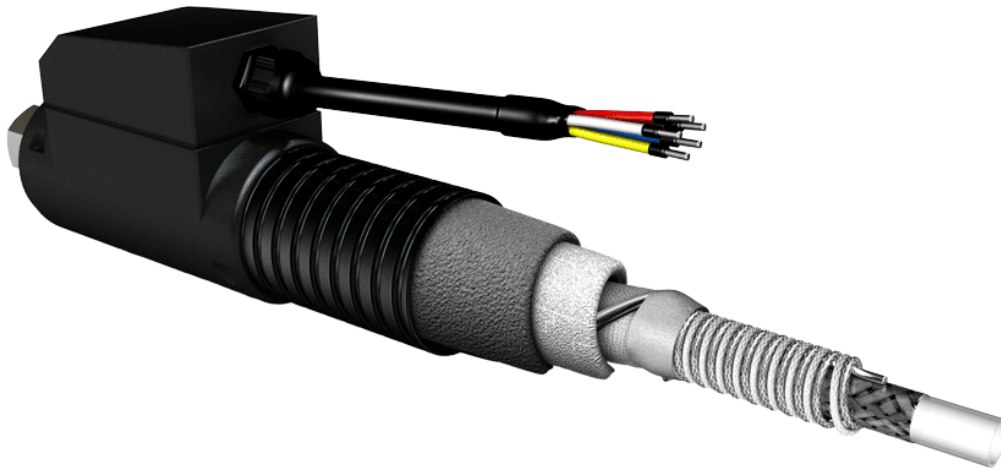
### Technical Benefits

- Transport of gaseous media without temperature loss
- Heat output optimised for application
- Great heating circuit lengths
- Heating cables produced in-house
- With integrated filter upon request

### Technical Data

Nominal Temperature	5 °C up to 450 °C
Nominal Width	12 mm up to 12 mm
Length	0,3 m up to 150 m
Voltage	12 V up to 400 V

### Heated Pressure Hoses (up to 250 °C)



DN4-DN25 - Heated pressure hoses serve to heat media, maintain a constant temperature and transport media such as the following without heat loss: oil, grease, wax, resin, tar, paint, water, glue, plastic, casting compound, food, etc. The heated hose is mounted on movable system and machine parts in most cases.

### Technical Benefits

- Temperatures from 5 °C up to 250 °C
- Diameter 4 mm up to 25 mm
- Voltage: 12 V up to 400 V
- Operating pressure: up to 500 bar
- Heat output optimised for application
- Trace heaters produced in house
- Available for automotive industry as silicone or LABS-free version

### Technical Data

Nominal Temperature	5 °C up to 250 °C
Diameter	4 mm up to 25 mm
Voltage	12 V up to 500 V
Operating Pressure	up to 400 bar

### *Where Are Heated Transport Systems Needed?*

There are a variety of applications, where a heated hose is needed. For example, a heated hose is very important for the chocolate production. Chocolate is one of the most temperature sensitive products. It requires a maintain temperature between 40 °C and 45 °C to ensure the quality and finally a good taste. An electrical heat tracing is needed to keep chocolate flowable the way along the entire transport from container or vessel to the final processing step.

### **As Special As Your Needs**

According to your application we offer different types of heated hoses. Heated analysis lines (with or without filter) are used in several industries, for example automotive or emission monitoring. In addition we provide heated pressure hoses and heated hoses for loading and unloading such as in chocolate production and furthermore for the automotive, food, chemical and petrochemical industry.



Chemical Industry



Food Industry



Automotive Industry



Paint Industry



Pharmaceutical Industry





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