



# CryoFill dewar System for filling liquid nitrogen into dewars

1/1  
Rev. 08/19

We reserve the rights for this elaboration according to DIN ISO 16016. Any depicted design corresponds to the current state of technology. Alterations to this embodiment will void validity.

**Application** CryoFill dewar serves for safe filling of liquid nitrogen into pressure-free dewar containers. The semiautomatic filling mechanism can be supervised and controlled by the monitor CryoGuard or the control system CryoServer. Wearing of hand and face protection is necessary while filling liquid nitrogen. Filling has to be carried out by instructed persons.

**Structure**

Fill lance with insulated hand grip and phase separator

Low-temperature safety solenoid valve, controlled by tracer or switch



Stainless steel waving tube

Nitrogen container, dewar

stand with integrated pipe holder

**Description**

The filling mechanism consists of a low-temperature safety solenoid valve with a stainless steel waving hose and a fill lance. The components are installed at a stand with integrated pipe holder. For filling the fill lance is pulled out of the pipe holder at the insulated hand grip and placed into the nitrogen container. The single solenoid valve is opened via a tracer or a switch and the liquid nitrogen get into the container over the phase separator. The filling time is limited to minimize the danger of container overstocking or running out of liquid nitrogen. At the end of the filling procedure the solenoid valve is closed by the user and the fill lance is placed back into the pipe holder.

**Options:**

- Special designs for transport containers
- Liquid nitrogen alarm and nitrogen stop (with CryoGuard or CryoServer)

**Techn. Data**

Dimensions	mm	H x B x T = 650 x 700 x 250
Weight	Kg	6
Power supply		230 VAC / 24 VDC