



## ★ DISTRIBUTION CRYOSTAR

## Single Gas Filling System ★



### ★ Presentation

Cryostar single gas filling systems have been developed for filling gas cylinders up to a pressure of 300 bar at 15° C. In order to gain the best output from the installation, this system is fed by one single source of gas, filling automatically up to 6 posts simultaneously or completing other operations on other posts at the same time. (Hidden time).

### ★ Quality

Each Cryostar system is thoroughly tested in our workshops, including:

- Pressure tests
- Electric, pneumatic and PLC tests
- Operational tests

Every Cryostar system is developed in compliance with the norms CE (PED, ATEX...)

### ★ Characteristics

Filling pressure	Up to 300 bar at 15° C
Gases	N <sub>2</sub> , Ar, O <sub>2</sub> , He, CO <sub>2</sub> , H <sub>2</sub> , etc...
Operations	Vent, Purge, Vacuum, Filling, analyse , top filling
Inlet lines	1 Monogas or premixed gas
Outlet lines	Up to 6 automatic outlets
Power supply	220 V, 50Hz
Automatic system management	Siemens PLC
Operator interface	Siemens Touch screen
Vacuum pump	40 to 200 m3/h



## ★ Features

**1** - This system of filling in 'hidden time' developed for maximum output, allows the operations of purge, vacuum and vent on selected posts, all whilst continuing to fill cylinders on the other posts. This obviously represents an important contribution to the overall level of system productivity.

**2** - Gas filling is controlled by simultaneous measurement of both pressure and temperature, ensuring that filling is completed at the pressure required.



**3** - The automatic control panel allows a visual presentation of the overall state of the system, any defects and all filling cycles. With a secure access code, it is possible to use the touch screen to resolve any defects and access the modes for maintenance, filling parameters and manual drive.

Managed by a Siemens PLC, these systems can either be totally autonomous or connected to a supervisory control desk.

**4** - Maintenance is facilitated by tracking of the number of cycles and reporting on defect history. There is equally the possibility of remote maintenance with the installed software. All of this is provided with the aim of limiting the risk of prolonged stoppage of the installation.

**5** - An archive mode stores information on all completed fillings along with their parameters into the memory bank of the system, ensuring traceability in case of defect in one particular load.

**6** - The operator interface program allows navigation between different modes through a simple touch of the icon on screen. A quick and efficient understanding of the menus can be gained this way, erasing the need for specific training courses to adapt to the system.

**7** - The vacuum module which can either be external or integrated into the chassis allows vacuum operations on the full system as well as the bottles. The

module is controlled directly from the system's automatic control panel.

## ★ Options

- Analysis outflow : For connection to an analyser
- Supervision: For the reporting and archiving of data
- Single filling output (No hidden time)
- Pressure gauges at the gas inlet
- Different pressure level filling option
- Remote vacuum pump
- Interface with E.R.P system

*For more details please contact your local Cryostar representative*



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