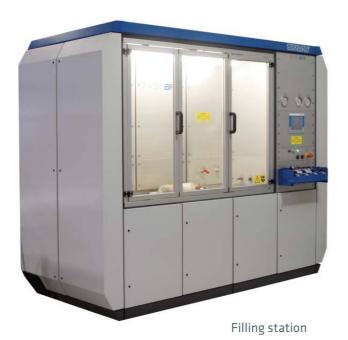


**PNEUMATICS / HYDRAULICS** 

## **Evacuation Slides - Bottle Filling Station**

## >EVS1-BFS<





Nitrogen compressor

The station is developed for high pressure filling of Evacuation Slides Reservoir Assemblies with defined N2 / CO2-proportion.

By this procedure, accelerated and secure filling can be achieved, e.g.: 360in<sup>3</sup> Reservoir Assembly with 1.04kg CO2 and 1.04kg N2, refillable in approx. 5 minutes

- Filling of both media (nitrogen and carbon dioxide) is possible with one device and one filling connec-
- No cooling for the Reservoir Assemblies required
- > Supply possible with commercial gas CO2; no unstable fluid lines necessary
- > High safety level for the operator; separately protected filling room
- > Fully automatic and half-automatic filling (stepwise) possible

# safety in test > safety in flight 7/17/1997

#### **GENERAL INFORMATION**

- > A weighing platform is integrated with stainless steel adaption and hose securing
- > In addition, an external filling bar is provided for flexible filling procedure of nitrogen or for optional tasks with nitrogen (pressure regulated)
- > A safety shutdown is performed at exceeding the filling parameters
- > The set up process, which must be carried out, is queried once again when starting the filling procedure
- > Parameter monitoring and control of the filling procedure is automatically done by the equipment
- > Filling parameters can be set separately for each medium via touch panel
- > Switch off criteria can be selected (pressure or filling amount)
- > Sequences of the media to fill are freely selectable (e.g. N2+CO2+N2... or CO2+N2+CO2... etc.)
- > Also single fillings of CO2 or N2 are possible
- > Terminal parameters can be stored for each P/N after filling procedure



Filling room with weighing platforms and stainless steel adaptions



External filling bar

### **OPTIONS**

A wide range of options is available to fulfil our customers' requirements. e.g.: store filling recipes and access for each P/N, requirement to filling program, dimensioning,...

## safety in test > safety in flight



#### TECHNICAL DATA

### > Hydraulic and pneumatic parameters:

Filling pressure max. 300bar (4,350psi)

Filling rate

CO2: max. 0.01kg/s (0.022lb/s)
N2: max. 0.01kg/s (0.022lb/s)

### > Hydraulic and pneumatic supplies

(requirements):

CO2 supply (gaseous)

Pressure: min. 30bar / max. 35bar

(min. 435psi / max. 508psi)

Connection: G1/2"

N2 (gaseous)

Pressure: min. 5bar / max. 11bar

(min. 73psi / max. 160psi)

Connection: G3/8"

Compressed air

Pressure: min. 6bar / max. 8bar

(min. 87psi / max. 116psi)

Connection: G1/4"

**Cooling water** 

Pressure: min. 1.5bar (22psi) Temperature: max. 25°C (77°F)

Connection: Rp11/4"

#### > Electrical supplies (requirements):

Filling station

Mains connection: 3/N/PE AC 50Hz 400V

Performance: 1.39kVA Nominal current: max. 2A

Pre-fuse: 16AgG NH-Type

Nitrogen compressor

Mains connection: 3/N/PE AC 50Hz 400V

Prefuse: 16AgG NH-Type

Cooling unit

Mains connection: 3/N/PE AC 50Hz 400V

Pre-fuse: 16AgG NH-Type

### > Dimensions and weight:

Filling station Width: approx. 2,800mm (110in)

Depth: approx. 1,500mm (59in) Height: approx. 2,400mm (94in) Weight: approx. 1,600kg (3,530lb)

Nitrogen compressor Width: approx. 800mm (31in)

Depth: approx. 1,550mm (61in)
Height: approx. 2,400mm (94in)
Weight: approx. 480kg (1,060lb)

Cooling unit Width: approx. 700mm (28in)

Depth: approx. 1,500mm (59in)
Height: approx. 1,300mm (51in)
Weight: approx. 365kg (805lb)

#### > Measurements:

<u>Pressure</u> 0 to 400bar (0 to 5,800psi)

(2-off) ±2bar

0 to 400bar (0 to 5,800psi)

(4-off) ±1% of full scale

0 to 100bar (0 to 1,450psi)

 $\pm 0.5\%$  of measuring range

0 to 100bar (0 to 1,450psi)

(1-off) ±1% of full scale

Differential pressure 0 to 100mbar (0 to 1.45psi)

(1-off) ±0.5% of measuring range

0 to 100mbar (0 to 1.45psi)

(1-off) ±1mbar

<u>Temperature</u> -40 to +100°C (-40 to 212°F)

(1-off) ±1% of full scale

<u>Weight</u> 0 to 60kg (0 to 132lb)

(1-off) ±0.01kg

#### > Operating conditions:

Operating temperature:5 to 35°C (41 to 95°F) Storage temperature:0 to 60°C (32 to 140°F)

Height: up to 1,000m (3,280ft) via MSL Rel. air humidity: 5 to 95% (non-condensing)

Altitude: Non-ex-area

>EVS1-BFS<
Technical data are subject to change!