

# Evacuation Slides - Bottle Filling Station

## >EVS1-BFS<



Filling station



Cooling unit

Nitrogen compressor

The station is developed for high pressure filling of Evacuation Slides Reservoir Assemblies with defined N<sub>2</sub> / CO<sub>2</sub>-proportion.

By this procedure, accelerated and secure filling can be realized, e.g.: 360in<sup>3</sup> Reservoir Assembly with 1.04kg CO<sub>2</sub> and 1.04kg N<sub>2</sub>, refillable in approx. 5 minutes

- > Filling of both media (nitrogen and carbon dioxide) possible with one device and one filling connection
- > No cooling for the Reservoir Assemblies required
- > Supply possible with commercial gas CO<sub>2</sub>, no unstable fluid lines necessary
- > High safety level for the operator, separately protected filling room
- > Fully automatic and half-automatic filling (step-wise) possible

## 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 at starting the filling procedure
- > Parameter monitoring and control for 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. N<sub>2</sub>+CO<sub>2</sub>+N<sub>2</sub>... or CO<sub>2</sub>+N<sub>2</sub>+CO<sub>2</sub>... etc.)
- > Also single fillings of CO<sub>2</sub> or N<sub>2</sub> 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,...

>EV51-BFS<

## TECHNICAL DATA

<p><b>&gt; Hydraulic and pneumatic parameters:</b></p> <p><u>Filling pressure</u>    max. 300bar (4,350psi)</p> <p><u>Filling rate</u></p> <p>CO2:                    max. 0.01kg/s (0.022lb/s)</p> <p>N2:                      max. 0.01kg/s (0.022lb/s)</p>	<p><b>&gt; Dimensions and weight:</b></p> <p><u>Filling station</u>            Width: approx. 2,800mm (110in)</p> <p>                                  Depth: approx. 1,500mm (59in)</p> <p>                                  Height: approx. 2,400mm (94in)</p> <p>                                  Weight: approx. 1,600kg (3,530lb)</p> <p><u>Nitrogen compressor</u>    Width:    approx. 800mm (31in)</p> <p>                                  Depth:    approx. 1,550mm (61in)</p> <p>                                  Height:    approx. 2,400mm (94in)</p> <p>                                  Weight:    approx. 480kg (1,060lb)</p> <p><u>Cooling unit</u>                Width:    approx. 700mm (28in)</p> <p>                                  Depth:    approx. 1,500mm (59in)</p> <p>                                  Height:    approx. 1,300mm (51in)</p> <p>                                  Weight:    approx. 365kg (805lb)</p>
<p><b>&gt; Hydraulic and pneumatic supplies (requirements):</b></p> <p><u>CO2 supply (gaseous)</u></p> <p>Pressure:                min. 30bar / max. 35bar                                   (min. 435psi / max. 508psi)</p> <p>Connection:             G1/2"</p> <p><u>N2 (gaseous)</u></p> <p>Pressure:                min. 5bar / max. 11bar                                   (min. 73psi / max. 160psi)</p> <p>Connection:             G3/8"</p> <p><u>Compressed air</u></p> <p>Pressure:                min. 6bar / max. 8bar                                   (min. 87psi / max. 116psi)</p> <p>Connection:             G1/4"</p> <p><u>Cooling water</u></p> <p>Pressure:                min. 1.5bar (22psi)</p> <p>Temperature:            max. 25°C (77°F)</p> <p>Connection:             Rp1 1/4"</p>	<p><b>&gt; Measurements:</b></p> <p><u>Pressure</u>                    0 to 400bar (0 to 5,800psi)</p> <p>(2-off)                        ±2bar</p> <p>                                  0 to 400bar (0 to 5,800psi)</p> <p>(4-off)                        ±1% of full scale</p> <p>                                  0 to 100bar (0 to 1,450psi)</p> <p>(1-off)                        ±0.5% of measuring range</p> <p>                                  0 to 100bar (0 to 1,450psi)</p> <p>(1-off)                        ±1% of full scale</p> <p><u>Differential pressure</u>    0 to 100mbar (0 to 1.45psi)</p> <p>(1-off)                        ±0.5% of measuring range</p> <p>                                  0 to 100mbar (0 to 1.45psi)</p> <p>(1-off)                        ±1mbar</p> <p><u>Temperature</u>                -40 to +100°C (-40 to 212°F)</p> <p>(1-off)                        ±1% of full scale</p> <p><u>Weight</u>                      0 to 60kg (0 to 132lb)</p> <p>(1-off)                        ±0.01kg</p>
<p><b>&gt; Electrical supplies (requirements):</b></p> <p><u>Filling station</u></p> <p>Mains connection: 3/N/PE AC 50Hz 400V</p> <p>Performance:        1.39kVA</p> <p>Nominal current:    max. 2A</p> <p>Pre-fuse:              16AgG NH-Type</p> <p><u>Nitrogen compressor</u></p> <p>Mains connection: 3/N/PE AC 50Hz 400V</p> <p>Prefuse:              16AgG NH-Type</p> <p><u>Cooling unit</u></p> <p>Mains connection: 3/N/PE AC 50Hz 400V</p> <p>Pre-fuse:              16AgG NH-Type</p>	<p><b>&gt; Operating conditions:</b></p> <p>Operating temperature: 5 to 35°C (41 to 95°F)</p> <p>Storage temperature: 0 to 60°C (32 to 140°F)</p> <p>Height:                    up to 1,000m (3,280ft) via MSL</p> <p>Rel. air humidity:      5 to 95% (non-condensing)</p> <p>Altitude:                 Non-ex-area</p>