

## B-SAFE 300

Uncompromising safety for filling

- › Up to 10 cylinders simultaneously<sup>1</sup>
- › Up to 410 bar operating pressure

<sup>1</sup> depending on cylinder size and connection type

- › SOPHISTICATED SAFETY CONCEPT FOR PREVENTING OPERATING ERRORS
- › NEW 5.7" TOUCH SCREEN
- › TRACEABILITY OF THE FILLED CYLINDERS (OPTIONAL)



**The new B-SAFE 300 provides high personal safety to the operating staff.**

As a result of filling accidents arising from exploding cylinders, explosion protection is already standard or is prescribed in many countries. B-SAFE replaces very expensive safety measures for compressor rooms and provides high legally required safety for the operator.

**Photo left side:** On Sept. 13th, 2011, the renowned certification organization „Bureau Veritas“ conducted in France a documented explosion test. When filling two other cylinders simultaneously, a breathing air cylinder (11 litres/200 bar) was caused to explode at 293 bar inside the B-SAFE 300, the safety chamber totally fulfilling its protection purpose.



**1** SAFETY CHAMBER

**2** SAFETY DOORS

**3** FILLING CONTROL

**4** PROPORTIONAL VALVE

**5** FILLING PANEL

**6** FILLING HOSES

**7** ON-OFF SWITCH

**8** EMERGENCY SWITCH

## Filling safety made to measure

### 1 ROBUST SAFETY CHAMBER

made of welded steel for protection against metal splinter projectiles in the event of a filling accident.

- › Grids at both sides and in the top panel channel the blast caused by an exploding cylinder away from the user
- › Automatic locking of the doors during the filling process for preventing inadvertent operating errors
- › Easy and comfortable opening with automatic internal pressure release as soon as the sliding doors are opened
- › Conceived for fixed installation in buildings or for mobile solution in vehicles
- › Easy loading, even in cramped confines, thanks to transport openings for pallet trucks on all sides of the housing



*Safety chamber with open doors*

### 2 COMFORTABLE COMPRESSOR CONTROL

for an easy and safe operation of the B-SAFE 300.

- › Access to all parameters via a clearly arranged 5.7" touch screen with intuitive navigation menu
- › Permanent user information via display concerning the current intake and filling pressures
- › Sophisticated safety and fault management
- › Integrated USB-port for communication and data transfer



*The clearly laid out display shows all relevant data*

### 3 EFFICIENT FILLING

thanks to the built-in proportional valve when using an intermediate buffer.

- › Allows adjustment of the filling rate between 20 and 50 bar/min for achieving a minimal air temperature at the end of the filling process
- › Automatic filling stop when the programmed filling pressure is reached at the end of the filling process

### 4 NUMEROUS OPTIONAL FEATURES

for a tailor-made application profile.

- › Optionally one or two filling pressures
- › Filling of up to 10 pressure cylinders at the same time
- › Traceability of the filled cylinders as well as the effected fillings by means of a 2D bar code
- › Integrated filling panel with direct filling connections

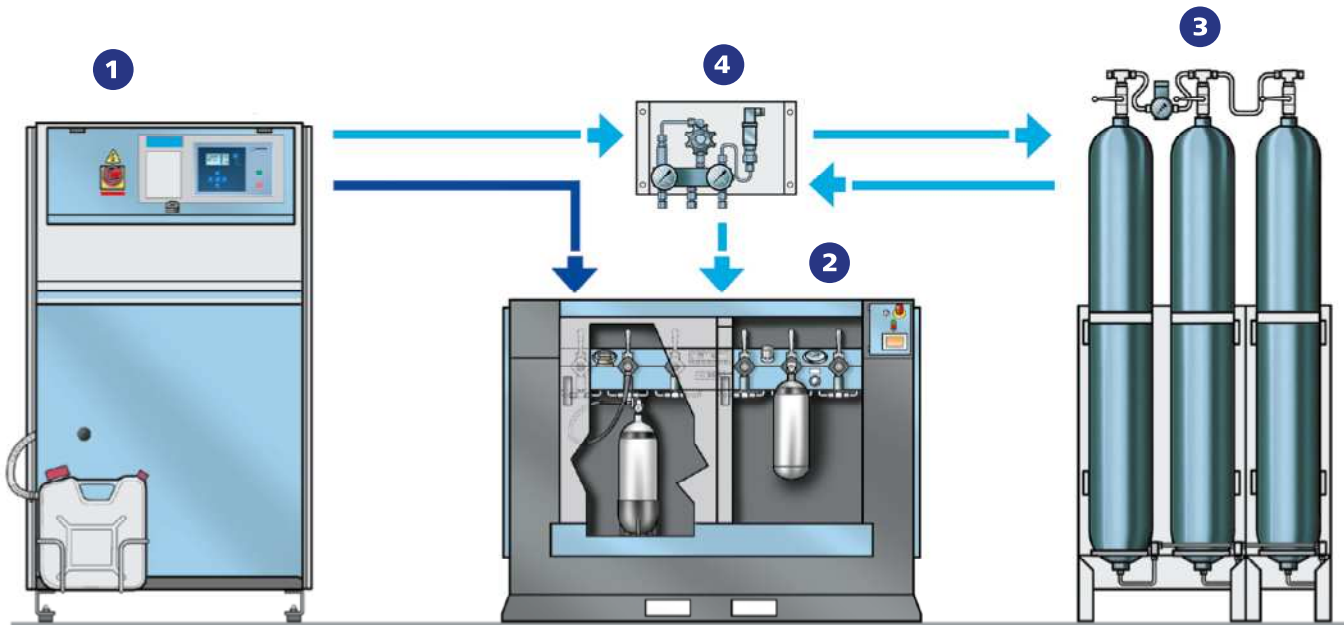


*Safety filling connections with automatic bleeding*



*2D-Barcode for traceability of filled cylinders*

## Safe filling system



- 1** High pressure compressor with filling connection for external filling panel and storage battery
- 2** B-SAFE 300 safety fill ramp, optionally with flexible hose connections or external filling panel

- 3** Storage battery for a large air volume
  - 4** Automatic cut-in for quick automatic filling from an intermediate buffer
- Optionally available in the 200 bar, 300 bar or 200+300 bar with pressure reducer versions

## TECHNICAL DATA

<b>Medium:</b>	Breathing air
<b>Maximum operating pressure:</b>	410 bar
<b>Filling pressures (up to 2):</b>	225/330 bar
<b>Filling rate<sup>1</sup>:</b>	20 – 50 bar/min

<b>Number of filling stations:</b>	max. 10
<b>Operating temperature:</b>	+5 – +45 °C
<b>Dimensions (L x W x H):</b>	175 cm x 60 cm x 135 cm
<b>Dimensions filling room:</b>	130 cm x 40 cm x 70 cm
<b>Weight:</b>	approx. 450 kg

<sup>1</sup> Only with proportional valve

