

B-FILL - External filling panels

Models:

Modules for filling | Optional control modules

- Filling panel for wall mounting
- Brilliant modular concept for personalised filling panels
- Enables filling separately from the compressor
- Hose- or direct connections
- Control module with either B-CONTROL MICRO control panel or BHW hardwired control panel
- Filling valves with non-return valve



External filling panel with control panel (optional)

The BAUER B-FILL external filling panel system, executed in a stylish new design, allows you to quickly fill breathing air cylinders. B-FILL is modularly expandable and can even be retrofitted. Each module is equipped with two (2) filling connectors, either with hoses or direct connections, both of which can fill at up to 200, 300 or 500 bar.¹

For optional control and monitoring of the system, there is either a B-CONTROL MICRO control panel or a BHW hard-wired control panel (on/off & emergency stop only) installed in an additional B-FILL module available. Up to four (4) B-FILL modules can be combined, allowing you to create the perfect filling panel for your requirements.

B-FILL is designed to function as a separate filling panel for wall mounting. Equipped with a remote control, it is ideal for installation away from the compressor in a separate area. The filling hoses surpass the strict safety requirements applicable to the filling of breathing air cylinders and can be parked in ergonomic brackets underneath the filling modules. Outflow restrictions in the filling valves provide effective protection for personnel and ambient, ensuring the highest level of operational safety even if any filling valve is opened unintentionally.

¹ 500 bar valve includes 420 bar, as there is no separate 420 bar connection.

TECHNICAL DATA

Modules	Dimensions (L x W x H) mm	Weight
	mm	kg
1 module (hoses)	440 x 240 x 180	Depending on configuration
1 module (direct filling connections)	440 x 288 x 171	Depending on configuration
2 modules (hoses)	840 x 240 x 180	Depending on configuration
2 modules (direct filling connections)	840 x 288 x 171	Depending on configuration
3 modules (hoses)	1240 x 240 x 180	Depending on configuration
3 modules (direct filling connections)	1240 x 288 x 171	Depending on configuration
4 modules (hoses)	1640 x 240 x 180	Depending on configuration
4 modules (direct filling connections)	1640 x 288 x 171	Depending on configuration

ARRANGEMENT

A maximum of four (4) modules can be configured, consisting of three (3) modules for filling and one (1) control module. More modules may be combined, however on request only.

The design of the desired configuration follows the following pattern:

1x basic module + 1x or 2x add-on modules (optional) + 1x control module (optional)

Note: The module with the highest pressure is always on the left, pressure reduction is possible towards the right. The control module is placed on the far right.

SCOPE OF DELIVERY

Filling panel with:

- Lever valve with hose connection or direct filling connection¹
- PN200, PN300 and PN500
- Up to four modules can be combined as desired
- High pressure test of all components
- Purge valve to prevent excessive CO₂ content in the compressed breathing air
- CE - mark

¹ Only suitable for steel cylinders and composite cylinders with unlimited service life (continuous loop indicator) up to 6 liters, and for Composite bottles, with a service life of 15 to a maximum of 30 years, up to 9 liters.

Filling panel with filling hoses PN200, PN300 or PN500

Filling panel with filling hoses	
Nominal pressure (PN)	200 bar, 300 bar or 500 bar ¹
Valve design	Two (2) lever valves, each with integrated venting
Pressure gauge	One (1) pressure gauge integrated in the filling module
Filling hose	Two (2) Unimam high pressure filling hoses (L = 1 m), each with German cylinder connection G 5/8" according to DIN 477 and DIN EN 144-2
International bottle connection (optional)	Two (2) international cylinder connections (200 bar only; not approved in Germany!)

¹ 500 bar valve includes 420 bar, as there is no separate 420 bar connection

Filling panel with direct filling connections PN200, PN300 or PN500

Filling panel with direct filling connections	
Nominal pressure (PN)	200 bar, 300 bar or 500 bar ¹
Valve design	Two (2) lever valves, each with integrated venting and German cylinder connection G 5/8" according to DIN 477 and DIN EN 144-2
Pressure gauge	One (1) pressure gauge integrated in the filling module

¹ 500 bar valve includes 420 bar, as there is no separate 420 bar connection

Surface structure of the B-FILL

The surfaces of the B-FILL in the colours RAL 7024 and RAL 9006 show a medium-strong surface structure.



OPTIONS

› Two pressure ranges / B-FILL with pressure reducer

B-FILL can be configured out of several modules with different pressure ranges as required per specific application. The additional pressure range can be switched on permanently with a pressure reducer. In addition, a further pressure gauge and a safety valve are available, too.

In case of three (3) different pressure ranges, B-FILL can also be equipped with two (2) pressure reducers. However, this is only possible if the first module fills with 420 bar and not with 500 bar.

The pressure reducers are made of anodized aluminium and have an easy-grip hand wheel for stepless pressure adjustment.

NOTE: The pressure reducer can be installed in the first module (= basic module) as well as in the second module.

› Electrical module with control

The compressor unit can be controlled (on/off, emergency stop) via B-FILL control module. Error messages are shown by means of either B-CONTROL display or simple pilot light after which the compressor unit is switched off. Either the B-CONTROL display or an LED pilot light indicates the current running status of the compressor. The control panels are available as either an additional B-FILL module or integrated in the first B-FILL filling module if required (BHW hard-wired control only).

Remote control panels:

- B-CONTROL

With the B-CONTROL, remote control of the compressor is possible with the identical displays and functions as on the compressor. Communication via CAN bus.

- BHW control panel:

For remote operation of B-CONTROL MICRO and B-CONTROL II.



- Integrated BHW control panel

For remote operation of B-CONTROL MICRO and B-CONTROL II.



FURTHER OPTIONS

- Flow limitation by means of a nozzle per filling valve
- Nitrox valves
 - 200 bar possible
 - 300 bar in preparation

NORMS, STANDARDS AND GENERAL INFORMATION

Relevant EU directives (where applicable)

- › EC Machinery Directive (2006/42/EC)
- › EU Pressure Equipment Directive (2014/68/EU)
- › EU Low Voltage Directive 2014/35/EU
- › EU Electromagnetic Compatibility (EMC) 2014/30/EU

Applied national standards and technical specifications in particular

- › Ordinance on Industrial Safety and Health (BetrSichV)
- › AD 2000
- › Accident prevention regulation BGR 500
- › All BAUER filter housings are designed, manufactured and tested in accordance with UVV and the regulations according to AD-2000 regulations and DGRL2014/68/EU.

Documentation: 1× instruction manual and parts list with exploded view on DVD

Execution: corresponds to the latest state of the art according to DIN, VDE, TÜV and UV regulations

Test: according to Bauer Standard to DIN EN 10204 - 3.1

In addition, the **General Terms and Conditions of BAUER KOMPRESSOREN (GTC)** apply in the version valid at the time of conclusion of the contract. These can be viewed and downloaded on the website www.bauer-kompressoren.de under the link "AGB". BAUER will also be pleased to send them to you.

All data without guarantee and subject to technical changes.