

Pressure control panel BU43F-AC-2U

spectro**tec**



BU43F-AC-2U-SSE-M-SV-F5-KH2

Product features

- Acetylene pressure control panel for high flow rates with automatic change-over for constant gas supply for connecting 2x1 trailers
- Single-stage design with compensated main valve for extremely high control accuracy
- Pneumatic pressure regulator for high flow rates with separate gas controlled automatic change-over panel for activation and change-over
- Pressure control panel complies with DIN-EN-ISO14114 and DIN-EN-ISO 15615
- Pressure control panel with the following tested safety devices:
 - flashback arrestor Tripple-SIMAX8N
 - over-pressure valve*
 - automatic quick acting shut-off device (SSE)

Attention:

Acetylene withdrawal systems may need to be certified before commissioning. Always refer to the local rules and regulations regarding such certifications.

Technical data

Type	single-stage
Inlet pressure P_1	max. 25 bar
Outlet pressure P_2	max. 1,5 bar
Materials	
Body regulator:	brass
Diaphragm regulator:	EPDM
Valve seat regulator:	PTFE
Mounting plate:	Aluminium
Ball valve:	steel, zinc plated
Connectors	
Inlet:	G 3/4"-LH male
Inlet control pressure:	compress. ring 6 mm
Outlet control pressure:	1/4"-NPT female
Outlet over-pressure valves:	stainless steel 18x2
Outlet shut-off valves:	M16x1,5 male
Outlet KH2:	G 2" female
Temperature range	-20°C to +60°C
Leak rate	$\leq 10^{-4}$ mbar l/s He
Weight	
BU43F-AC-2U:	ca. 250 kg

* An over-pressure valve is not considered to be a safety accessory according to the Pressure Equipment Directive 2014/68/EC (PED).

The maximum withdrawal rate is approx. **240 Nm³/h** of acetylene. At an inlet pressure of approx. 4 bar, as is the case with an almost empty acetylene cylinder, the pressure regulator still supplies approx. 100 Nm³/h of acetylene.

Flow rates Q [m³/h] acetylene

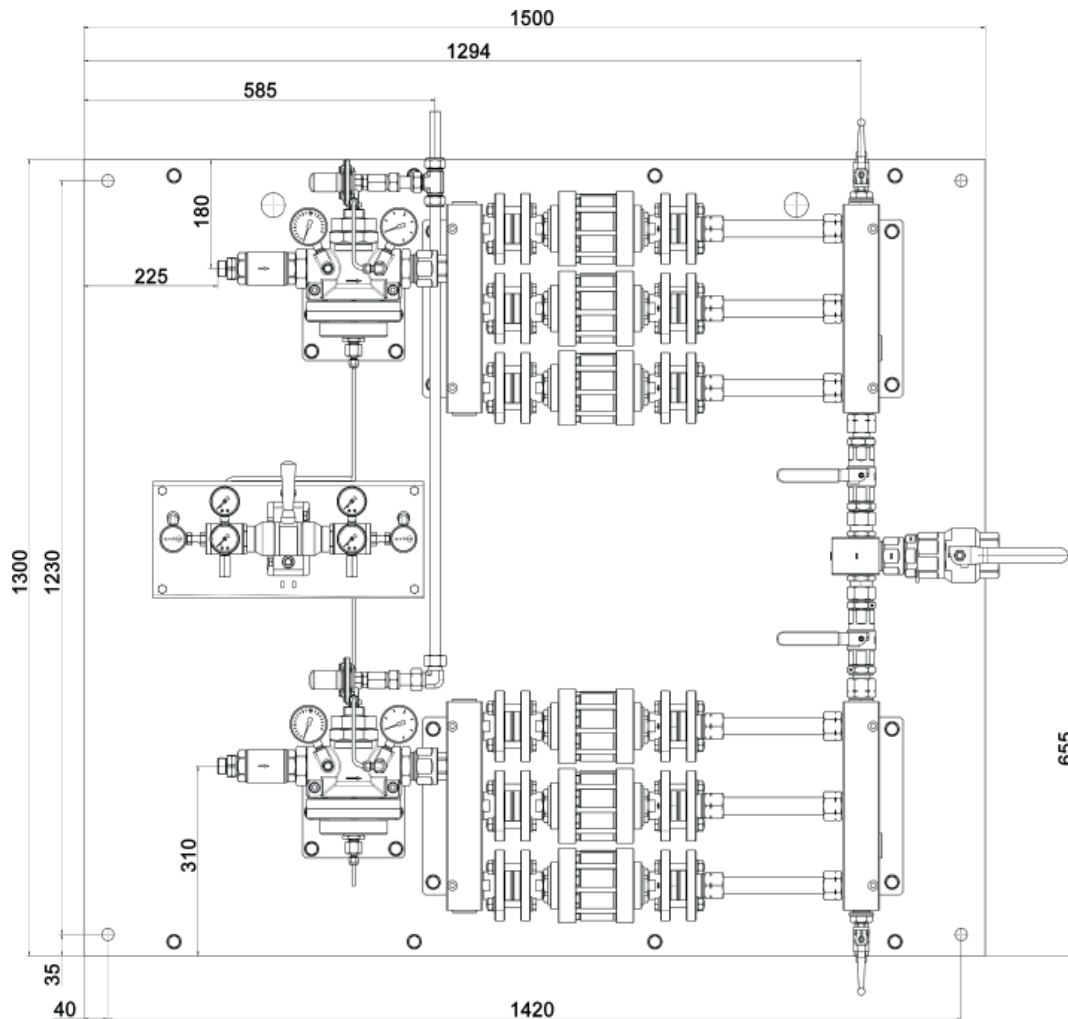
The withdrawal rate should not exceed approx. **0.5 Nm³/h per cylinder** in permanent operation, so no solvent from the cylinder will enter the withdrawal system. However, the flow rate may be increased to approx. 1 m³/h for brief peak loads.

P ₁ [bar]	SSE	
	P ₂ [bar]	Q [m ³ /h]
18	1,21	150
10	1,26	150
7	1,12	150
4	0,60	100

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Dimensions and connections BU43FAC-SSE-M-SV-F5-KH2



Ordering information: Pressure control panel BU43F-AC-2U

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Quick acting shut-off

SSE automatic quick acting shut-off device

Inlet press. indication

M pressure gauge
K contact pressure gauge
PT pressure transmitter

Main shut-off valve (outlet)

KH2 2"-ball valve in the outlet

Flashback arrestor

F5 flashback arrestor (6x)

Over-pressure valve

SV with over-pressure valve SV73