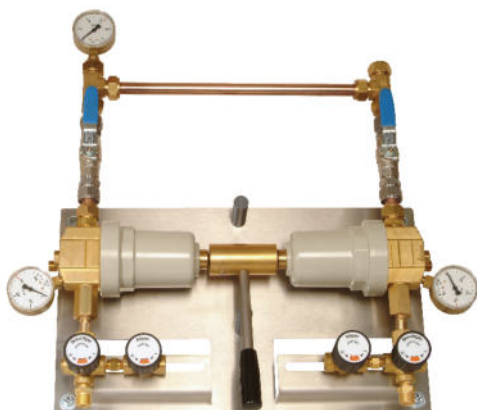


Pressure control panel BU13&15-2U spectrotec



BU13-2Ux1-15-M-KH-M-N2



BU15-2Ux1-40-M-0-0-N2

Product features

- Pressure control panels with automatic change-over function for high flows
- For non-corrosive technical gases
- Single-stage with compensated main valve
- Modular design (to be extended to 2x2, 2x3 ect. cylinders / bundles)
- Central filter in pressure regulators
- Pressure regulators with highly stable and accurate outlet pressure complete with integrated relief valve
- Shut-off valves with On/Off-position indicators
- Process gas and purge valve on the inlet pressure side
- Option: ball valves and optional gauge on the outlet
- Safety pressure gauges acc. to DIN EN ISO 5171
- Compact design for easy installation
- Tested and approved for use with oxygen
- Suitable for inlet pressures of up to 300 bar
- Variable outlet pressure

Technical data

Type	single-stage with compensated main valve
Inlet pressure P_1	max. 300 bar
Outlet pressure P_2	15 / 20 / 40 / 60 bar
Materials	
Body:	Brass
Diaphragm (BU13):	NBR
Piston (BU15):	Brass
Valve seat regulator:	PA
Filter process gas valve:	Sintered bronze
Filter pressure regulator:	Nickel
Mounting plates:	Stainless steel
Connectors	
Inlets:	G 1/2" male
Outlet relief valve:	G 3/8" male
Outlet:	Brass compression fitting for 18 mm copper tube
Temperature range	-20°C to +60°C
Leak rate	$\leq 10^{-4}$ mbar l/s He
Weight	BU15-2Ux1: 17 kg BU13-2Ux1: 15 kg

Flow rates Q [m³/h] Nitrogen

The tables below provide the values for the flow rate in standard cubic metres of Nitrogen at the indicated operating conditions. The flow rates of other gas types may be estimated using the conversion factors from the table on the right.

For more specific flow rate calculations please refer to our data sheet "Performance diagram". The tables show the flow rates with only one side delivering the gas!

BU13-2U (15)		P_1 [bar]							
P_2 [bar]		10	15	20	40	80	100	120	200
5		40	62	86	150	205	221	237	261
10		-	50	80	159	228	258	260	289
15		-	-	60	156	251	260	280	300

BU13-2U (20)		P_1 [bar]							
P_2 [bar]		10	15	20	40	80	100	120	200
15		-	-	40	130	225	235	250	270
20		-	-	-	134	210	236	250	300

BU15-2U (40)		P_1 [bar]				
P_2 [bar]		45	80	100	120	200
30		88	213	262	265	305
40		65	213	242	265	431

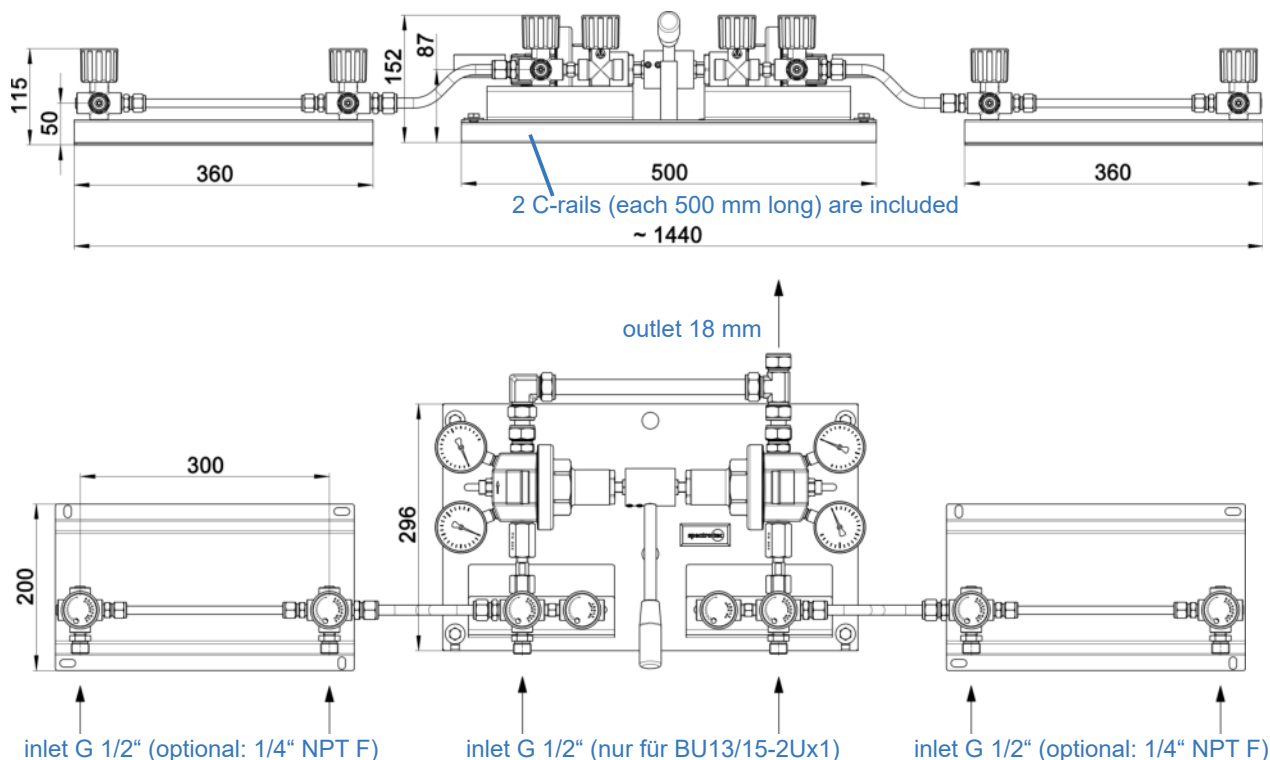
BU15-2U (60)		P_1 [bar]				
P_2 [bar]		45	80	100	120	200
40		65	213	243	273	431
50		-	250	365	440	500
60		-	255	388	440	550

Conversion factors

Gas type	factor
Argon	0,83
Helium	2,64
Carbon Dioxide	0,79
Air	0,98
Oxygen	0,93
Hydrogen	3,71

Pressure control panel BU13&15-2U spectrotec

Dimensions



Ordering information: Pressure control panel BU13&15-2U

BU15 - 2U - x1 - 20 - M - 0 - 0 - N2

For pressure control panel
with manual change-over:
see data sheet "BU13"

Type

- 13** outlet pressure: 15 / 20 bar
15 outlet pressure: 40 / 60 bar

Design

- x1** automatic change-over 2x1 panel
x2 automatic change-over 2x2-panel
xn automatic change-over 2xn-panel

Outlet pressure P_2^*

- 15** 13-17 bar (BU13-2U)
20 18-22 bar (BU13-2U)
40 38-42 bar (BU15-2U)
60 58-62 bar (BU15-2U)

Gas type

Please specify the type of gas
with our order!

Pressure gauge (outlet)

- 0** on each pressure regulator
M only one common in outlet

Ball valves (outlet)

- 0** without
KH ball valves in the outlet

Inlet pressure indication

- M** pressure gauge
K contact pressure gauge

* The stated pressure is the middle pressure. If a certain minimum or maximum pressure is required, this has to be specified.