



spectra on

MESSER
Cutting Systems

Centralised Gas Distribution Systems

- High Accuracy Pressure Regulation.
- High Gas Flow Rates.
- Central Filter with Integrated Relief Valve in the Regulator.
- Modular Design Control Panels.
- Integrated Purge and Shut-off valves with On/Off Indication.
- Designed for Easy Installation.
- All Components Are Manufactured According to DIN EN ISO 9001.
- Suitable for all gases upto 99.998% purity

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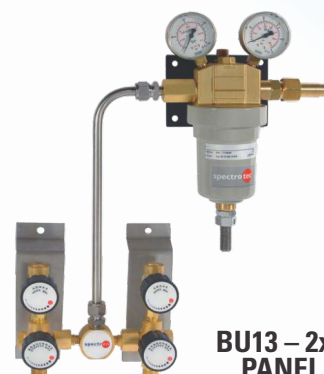
Pressure Control Panels

Manual Changeover Panels

with Integrated Shut-off and Purge Valves



**BT2000-1x1 & BT2000-2x1
PANELS**

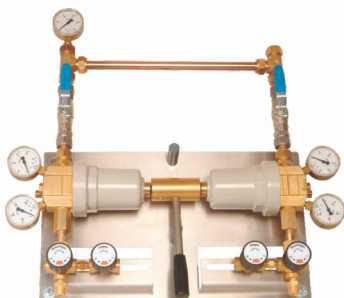


**BU13 – 2x1
PANEL**

Automatic Changeover Panels

Pressure Control Equipment for Process Gas

for uninterrupted, continuous gas supply complete with integrated shut-off and purge valves. Extension panels available for multiple gas cylinders and bundles. Optional valves, pressure gauges, contact gauges, audio visual alarm, cylinder hoses, cylinder brackets available.



BU13-2U (20)	Flow rate [m³/hr] 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

BU13-2U
Inlet pressure 40/300 bar
Outlet pressure 10-28 bar

Conversion factors

Gas Type	Factor
Argon	0,83
Helium	2,64
Carbon dioxide	0,79
Air	0,98
Oxygen	0,93
Hydrogen	3,71

BU15-2U (60)	Flow rate [m³/hr] 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

BU15-2U
Inlet pressure 200/300 bar
Outlet pressure 20-60 bar



BT2000-2L
Autochangeover Panel
300 / 10, 20, 50, 100 bar

Oxygen Inlet pressure (P ₁) [bar]	Flow rate (V ₁) [m³/hr] at outlet press. (P ₂) [bar]			
	1	2, 5	4	10
40	15	30	40	50
20	15	20	25	30
10	15	15	15	-
5	10	10	10	-

Pressure Regulators For Gas Supply System

LT2000

P1 – 40/300 bar
P2 – 1.5 TO 200 bar
Porting – ¼" NPTF
Flowrate – 50m³/hr



U11

P1 – 40 bar
P2 – 10 bar (Higher P2 On Demand)
PORTING – G1/2" female
Flowrate – 100m³/hr



U13

P1 – 50 bar
P2 – 1.5 TO 4 bar
P1 – 200/300 bar
P2 – 6 TO 35 bar
35 bar Only For NFG
Flowrate – 500m³/hr max



U15

P1 – 300 bar
P2 – 20 – 60 bar
Porting – G1/2" female
Flowrate – 700m³/hr max



U23

P1 – 40 bar
P2 – 2.5 bar/ Higher On Request
Porting – G1/2" female
Flowrate – 500m³/hr



U33

P1 – 10 bar max
P2 – 5 TO 1500 mbar
Porting – G1/2" female
Flowrate – 25m³/hr



U47

P1– 16 to 300 bar max
P2 – 4 to 150 bar max
Porting – G 1 1/2" female
Flowrate – 2000m³/hr



**Dome loaded
regulators for
Remote controlled
Pressure regulation
by ST2000**



REGULATOR	U12	U22	U42
P1	40 bar	40 bar	40 bar
P2	30 bar	30 bar	30 bar
Flowrate	300 m ³ /hr	600 m ³ /hr	2000 m ³ /hr
Porting	G1/2" f	G1/2" f / G1" m	G1/4" f

*ST2000 Required for pressure control & accuracy.

Panels & Regulators for Acetylene Manifolds

BT61 AC

P1 in – max. 25 bar
P2 out – max. 0, 2-1, 5 bar
Porting – 1/4" female
Flowrate – 8m³/hr



U11 AC

P1 in – max. 1, 5 bar
P2 out – max. 1, 5 bar
Porting – 1/4" female
Flowrate – 6m³/hr



U13 AC

P1 in – max. 25 bar
P2 out – max. 1, 5 bar
Porting – 1/4" Female
Flowrate – 120m³/hr



U23 AC

P1 in – max. 1, 5 bar
P2 out – max. 1, 5 bar
Porting – 1/4" Female
Flowrate – 12m³/hr



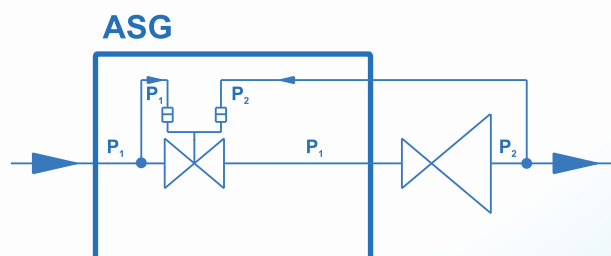
BT2000AC



BU13AC



BT2000AC with ASG



ASG arrangement in panel

Tapping Point Regulators

Pressure and flow Regulating Systems Enable Individual Pressure and Flow Control



ET2000

(Back Inlet & Bottom Outlet)



ET65-BV with Flowmeter

(Top Inlet & Bottom Outlet)



ET65-BV

Regulators for High Purity Application



FE53

P1 in – 300 bar
P2 out – 1,5 / 4 / 10 / 20 bar
Porting – 1/4" Female
SS 316L (SS 1.4404) body
Hastelloy Diaphragm



FM53

P1 in – max. 300 bar
P2 out – 1,5 / 4 / 10 / 20 bar
Porting – 1/4" Female
Chrome Plated Brass body with
Hastelloy Diaphragm



CRF61

P1 in – 300 bar
P2 out – 1.5 to 10 bar
Porting – 1/4" Female
Brass body with SS Diaphragm

Safety Devices for Manifolds and Tapping Points

EN730, ISO 5175, BAM Approved

For Protection Against Flashback, Burn Back, Reverse Flow and Acetylene Decomposition



DGN

Flashback Arrestor
P max. 1.5 - 20 bar
Porting: 3/8"



DG91N

Flashback Arrestor
P max. 1.5 - 20 bar
Porting: G1/2"



DKG Coupling



D2 Coupling

Safety Devices for Manifolds and Tapping Points (Contd.)

EN730, ISO 5175, BAM Approved



DEMAX 5

Flashback Arrestor
P max. 1.5 - 20 bar
Porting: G 1" - RH-F



SIMAX

Flashback Arrestor
P max. 1.5 - 20 bar
Porting: G 1½" - RH-F



DGN-DK Coupling

Manifold Accessories



F11 Filter



Braided Hose



CO₂ Preheater



F25 Filter



Mini PGM Gas Mixer



Cylinder Bracket with Chain

Manifold Installations



2x3 Nitrogen Cylinder Pallet Manifold with U15 High Flow Regulator for Laser Cutting Machine

U 15 High Flow regulator

Manifold Extension Panel

BT2000 - AC - 2x2 with ASG

Acetylene Safety Gaurd

BT 2000 Acetylene Panel



Gas Manifold System for Dura Cylinder



U13 Regulator

Identification Board

Liquid Oxygen Tank

2x10 Oxygen Cylinder Manifold with U13 regulator & F11 filter

U 13 Regulator

F 11 Filter

DO'S & DON'TS BOARD





Tapping Point Regulator ET65 with Ball Valve

Ball Valve

ET 65 Tapping Point Regulator

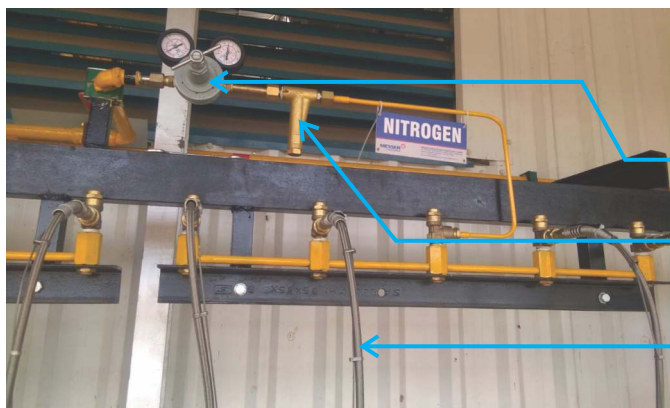
Flash Back Arrestor

Gas Supply System for Welding Training Center

BT 2000 Panel

High Pressure SS Hose

Cylinder Bracket with Chain



Nitrogen Manifold with Tornado 300 & F11 Filter

Tornado 300 High Flow Regulator

F 11 Filter

High Pressure Stainless Steel Hose

Imported & Marketed in India by:

Messer Cutting Systems India (P) Ltd.,

No. 198/2A2A, 198/2A2B AND 199/2AB2, SNMV College Road,
Mallumichampatti, Coimbatore - 641 050, Tamil Nadu, INDIA.

Tel. : + 91 422 672 5501

E-mail: sales.all@mesher-cutting.com www.messer-cutting.com

Messer Cutting Systems GmbH

Otto-Hahn-Str. 2-4, 64823 Groß-Umstadt, Germany

T +49 6078 787-155 F +49 6078 78750-389

www.messer-cutting.com

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