MANÁSOLDA® - BOX2

Dynamic gas mixer for mixing 02 gases, with adjustment of the gas concentration from 0 to 100%, control of gas mixture flow rate and high stability of the outlet pressure.

Suitable for welding, plasma cutting, laser cutting, steel/metal processing, offshore, shipbuilding, and other segments where the proper gas mixture is an important factor to guarantee quality and consistency in the manufacturing process.

BENEFITS:

- **A GAS MIXER REDUCES GAS MIXTURE COST/WELDING COST;**
- **DYNAMIC ADJUSTMENT OF THE GAS MIXTURE FROM 0 TO 100%– ISO 14175;**
- **GAS MIXTURE FLOW RATE up to 21 m^3/h;**
- **HIGH OUTLET PRESSURE STABILITY;**
- **WHEN INLET GAS SUPPLY IS INTERRUPTED, GAS MIXTURE PRODUCTION STOPS AUTOMATICALLY;**

MANÁGAS

GAS MIXER
GMAW Welding - GTAW Welding
Plasma Cutting

MANÁSOLDA

Models MANÁSOLDA BOX2	1 / 2 / 4 / 8
Gases	Industrial, medicinal and specialty gases*
Gas mixture range	From 0 to 100% according to ISO 14175
Gas mixture accuracy (ISO 14175)	+/- 0,5% to 1 – 5 % in volume +/- 10% to 5 – 20% in volume +/- 2% to >20% in volume
Gas mixture outlet flow rate	Please check the tables below
Maximum Inlet Pressure	13 bar
Inlet and outlet door BOX 2 - 1 / 2 / 3 **Inlet and outlet door BOX 2 - 4** **For flammable gases**	G 1/4 G 3/8 G 3/8 left thread
Dimensions (height x width x length)	250 x 185 x 340 (mm)
Weight(kg)	9

BOX2 -1 Flow rate in m^3/h in Nitrogen

Minimum Inlet Pressure (bar) \ Outlet Pressure (bar)	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
2	0,5	-	-	-	-	-	-	-	-	-	-	-
3	-	0,6	-	-	-	Note: Reduced mixture						-
4	-	-	0,8	-	-	output in case of higher						-
5	-	-	-	1,1	-	outlet pressures						-
6	-	-	-	-	1,2	-	-	-	-	-	-	-
7	-	-	-	-	-	1,5	-	-	-	-	-	-
8	-	-	-	-	-	-	1,7	-	-	-	-	-
9	-	-	-	-	-	-	-	1,8	-	-	-	-
10	-	-	-	-	-	-	-	-	2,1	-	-	-
11	-	-	-	-	-	-	-	-	-	2,3	-	-
12	-	-	-	-	-	-	-	-	-	-	2,4	-
13	-	-	-	-	-	-	-	-	-	-	-	2,7

BOX2 -2 Flow rate in m^3/h in Nitrogen

Minimum Inlet Pressure (bar) \ Outlet Pressure (bar)	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
2	0,8	-	-	-	-	-	-	-	-	-	-	-
3	-	1,3	-	-	-	Note: Reduced mixture						-
4	-	-	1,8	-	-	output in case of higher						-
5	-	-	-	2,2	-	outlet pressures						-
6	-	-	-	-	2,7	-	-	-	-	-	-	-
7	-	-	-	-	-	3,1	-	-	-	-	-	-
8	-	-	-	-	-	-	3,6	-	-	-	-	-
9	-	-	-	-	-	-	-	4	-	-	-	-
10	-	-	-	-	-	-	-	-	4,4	-	-	-
11	-	-	-	-	-	-	-	-	-	4,9	-	-
12	-	-	-	-	-	-	-	-	-	-	5,3	-
13	-	-	-	-	-	-	-	-	-	-	-	5,7

BOX2 -4 Flow rate in m^3/h in Nitrogen

Minimum Inlet Pressure (bar) \ Outlet Pressure (bar)	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
2	1,5	-	-	-	-	-	-	-	-	-	-	-
3	-	2,4	-	-	-	Note Reduced mixture						-
4	-	-	3,2	-	-	output in case of higher						-
5	-	-	-	4,1	-	outlet pressures						-
6	-	-	-	-	5	-	-	-	-	-	-	-
7	-	-	-	-	-	5,8	-	-	-	-	-	-
8	-	-	-	-	-	-	6,6	-	-	-	-	-
9	-	-	-	-	-	-	-	7,4	-	-	-	-
10	-	-	-	-	-	-	-	-	8,3	-	-	-
11	-	-	-	-	-	-	-	-	-	9,1	-	-
12	-	-	-	-	-	-	-	-	-	-	9,9	-
13	-	-	-	-	-	-	-	-	-	-	-	11

BOX2 -8 Flow rate in m^3/h in Nitrogen

Minimum Inlet Pressure (bar) \ Outlet Pressure (bar)	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
2	2,9	-	-	-	-	-	-	-	-	-	-	-
3	-	4,7	-	-	-	Note: Reduced mixture						-
4	-	-	6,3	-	-	output in case of higher						-
5	-	-	-	8	-	outlet pressures						-
6	-	-	-	-	9,6	-	-	-	-	-	-	-
7	-	-	-	-	-	11	-	-	-	-	-	-
8	-	-	-	-	-	-	13	-	-	-	-	-
9	-	-	-	-	-	-	-	15	-	-	-	-
10	-	-	-	-	-	-	-	-	16	-	-	-
11	-	-	-	-	-	-	-	-	-	18	-	-
12	-	-	-	-	-	-	-	-	-	-	19	-
13	-	-	-	-	-	-	-	-	-	-	-	21

** Not suitable for corrosive, toxic gases and / or mixtures of combustible gases with Oxygen, Nitrous Oxide and compressed air.*