



MANÁSOLDA® - BOX2

Dynamic gas mixer for mixing O₂ 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 m³/h;**
- **HIGH OUTLET PRESSURE STABILITY;**
- **WHEN INLET GAS SUPPLY IS INTERRUPTED, GAS MIXTURE PRODUCTION STOPS AUTOMATICALLY;**

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)

Less than 5% +/- 1% of specified value
Greater than 5% +/- 10% of the specified value

Gas mixture outlet flow rate

Please check the tables below

Maximum Inlet Pressure

13 bar

Inlet and outlet door BOX 2 - 1 / 2 / 3

G 1/4

Inlet and outlet door BOX 2 - 4

G 3/8

For flammable gases

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 m³/h in Nitrogen

		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	
Minimum Inlet Pressure (bar)	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 m³/h in Nitrogen

		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	
Minimum Inlet Pressure (bar)	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 m³/h in Nitrogen

		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
Minimum Inlet Pressure (bar)	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 m³/h in Nitrogen

		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
Minimum Inlet Pressure (bar)	2	2,9	-	-	-	-	-	-	-	-	-	-	-
	3	-	4,7	-	-	-	Note: Reduced mixture output in case of higher outlet pressures						-
	4	-	-	6,3	-	-							-
	5	-	-	-	8	-							-
	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.