



## MANÁSOLDA® - BOX3

Dynamic gas mixer for mixing 03 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<sup>3</sup>/h;**
- **HIGH OUTLET PRESSURE STABILITY;**
- **WHEN INLET GAS SUPPLY IS INTERRUPTED, GAS MIXTURE PRODUCTION STOPS AUTOMATICALLY;**

## Models MANÁSOLDA BOX3

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 table 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 290 x 340 (mm)

## Weight(kg)

12

BOX3 -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	-	-	-	-	-	-	-	-	-	-
	4	-	-	0,8	-	-	-	-	-	-	-	-	-
	5	-	-	-	1,1	-	-	-	-	-	-	-	-
	6	-	-	-	-	1,2	-	-	-	-	-	-	-
	7	-	-	-	-	-	1,5	-	-	-	-	-	-
	8	-	-	-	-	-	-	1,7	-	-	-	-	-
	9	-	-	-	-	-	-	-	1,8	-	-	-	-
	10	-	-	-	-	-	-	-	-	2,1	-	-	-
	11	-	-	-	-	-	-	-	-	-	2,3	-	-
	12	-	-	-	-	-	-	-	-	-	-	2,4	-
	13	-	-	-	-	-	-	-	-	-	-	-	2,7

BOX3 -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	-	-	-	-	-	-	-	-	-	-
	4	-	-	1,8	-	-	-	-	-	-	-	-	-
	5	-	-	-	2,2	-	-	-	-	-	-	-	-
	6	-	-	-	-	2,7	-	-	-	-	-	-	-
	7	-	-	-	-	-	3,1	-	-	-	-	-	-
	8	-	-	-	-	-	-	3,6	-	-	-	-	-
	9	-	-	-	-	-	-	-	4	-	-	-	-
	10	-	-	-	-	-	-	-	-	4,4	-	-	-
	11	-	-	-	-	-	-	-	-	-	4,9	-	-
	12	-	-	-	-	-	-	-	-	-	-	5,3	-
	13	-	-	-	-	-	-	-	-	-	-	-	5,7

BOX3 -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	-	-	-	-	-	-	-	-	-	-
	4	-	-	3,2	-	-	-	-	-	-	-	-	-
	5	-	-	-	4,1	-	-	-	-	-	-	-	-
	6	-	-	-	-	5	-	-	-	-	-	-	-
	7	-	-	-	-	-	5,8	-	-	-	-	-	-
	8	-	-	-	-	-	-	6,6	-	-	-	-	-
	9	-	-	-	-	-	-	-	7,4	-	-	-	-
	10	-	-	-	-	-	-	-	-	8,3	-	-	-
	11	-	-	-	-	-	-	-	-	-	9,1	-	-
	12	-	-	-	-	-	-	-	-	-	-	9,9	-
	13	-	-	-	-	-	-	-	-	-	-	-	11

BOX3 -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	-	-	-	-	-	-	-	-	-	-
	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.