





MG 50-2ME GB

MG 50-3ME Ex

Gas mixing systems for 2 or 3 defined gases, designed for a variety of industrial applications with high flows and fluctuating gas mixture production requirements.

Capacity range from 0 to approx. 5 686 SCFH. For the exact pressure and flow capacity ratios, please see the technical data overleaf.

#### Note:

System only works with sufficient buffer volume (100 to 250 litres depending on gas mixing capacity).

## Easy operation

- a proportional mixing valve (-2ME) or three single mixing valves (-3ME), each with a control knob and %-scale, provide infinitely variable mixture settings
- gas mixture withdrawal possible from zero to the maximum flow capacity

### **Options**

- for flammable gases available as Ex-version with separate control cabinet
- without electrical equipment as MP-version
- alarm module AM3: integrated inlet pressure monitoring with digital display for pressure (with analog pressure transmitters) plus optical alarm, adjustable alarm limits, obligation of acknowledgement, protection of alarms, interfaces for controlling external alarms etc.
- integrated gas analysis for the monitoring/control and documentation of the gas mixture production
- gas mixer mounted on gas mixture buffer tank for a more convenient installation

#### High process reliability

- independent of pressure fluctuations in the gas supply
- · intermittent gas mixture withdrawal possible
- lockable transparent door for protection of settings
- splash-proof and robust stainless steel housing

Other models, options and accessories available upon request.

Please identify the individual gases at the time of enquiring!

# GAS MIXER MG 50/100-ME



Type MG 50/100-2ME /-3ME; MG 50/100-2ME /-3ME Ex

Gases all technical gases (excluding toxic or corrosive gases)

Mixing range 0-25% or 0-100%

by selection of suitable mixing range the accuracy corresponds to ISO 14175

Pressure settings see tables

Inlet pressure differential

between the gases max. 44 PSI
Mixture output (air) see tables

**Setting accuracy** ±1% abs. (scale 0-25%), ±2% abs. (scale 0-100%)

Mixing precision better than ±1% abs.

Gas connections MG 50

inletsG 1/2 RH with cone, soldering nipple for pipe OD 0.59 inchesoutlet at mixerG 1/2 RH with cone, soldering nipple for pipe OD 0.59 inchesoutlet at receiverWITTFIX-Pipe Couplers for pipe OD 22x1.5 mm

Gas connections MG 100

inletsG 1 RH with cone, soldering nipple for pipe OD 0.87 inchesoutlet at mixerG 1 RH with cone, soldering nipple for pipe OD 0.87 inchesoutlet at receiverWITTFIX-Pipe Couplers for pipe OD 22x1.5 mm

**Housing** stainless steel, splash proof (not Ex-version)

Weight MG 50 approx. 1 235 oz (-2ME), approx. 1 764 oz (-3ME) without receiver approx. 1 340 oz (-2ME), approx. 1 870 oz (-3ME) without receiver

Dimensions (HxWxD)

mixer approx. 12.99 x 19.09 x 19.68 inches (without connections and receiver) separate control cabinet (Ex) approx. 11.02 x 11.89 x 6.22 inches (without connections)

separate control cabillet (LX) approx. 11.02 x 11.03 x 0.22 inches (without confidencial)

**Voltage** 230 V AC, 110 V AC or 24 V DC

Power consumption 230 V AC, 0.07 A

Approvals Company certified according to ISO 9001 and ISO 22000

CE-marked according to: - EMC 2014/30/EU

- Low Voltage Directive 2014/35/EU

- PED 2014/68/EU

- ATEX 114 Directive 2014/34/EU for food-grade gases according to: - Regulation (EC) No 1935/2004

Designed for Oxygen Service in accordance with EIGA 13/20, CGA G-4.4 and AIGA 021/20: Oxygen Pipeline and Piping Systems

Cleaned for Oxygen Service in accordance with EIGA 33/18, CGA G-4.1

and AIGA 012/19: Cleaning of Equipment for Oxygen Service

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Flow MG 100 (in SCFH) in relation to air										
min. receiver pressure in barg (max. receiver pressure 7 PSI higher)										
		22	36	51	65	80	94	109	123	138
min. inlet pressure in PSIG (max. 290 PSI)	58	1307	-	-	-	-	-	-	-	-
	73	1872	1589	-	-	-	-	-	-	-
	87	2366	2190	1730	-	-	-	-	-	-
	102	2825	2719	2437	1872	-	-	-	-	-
	116	3284	3214	3037	2649	2119	-	-	-	-
	131	3743	3708	3531	3284	2896	2225	-	-	-
	145	4202	4167	4061	3849	3567	3072	2401	-	-
	160	4697	4662	4591	4450	4202	3814	3284	2543	-
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	189	5686	5650	5580	5509	5368	5191	4838	4344	3673