





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. 161 Nm³/h. 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



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

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. 3 bar 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

inlets outlet at mixer outlet at receiver G 1/2 RH with cone, soldering nipple for pipe OD 15 mm G 1/2 RH with cone, soldering nipple for pipe OD 15 mm WITTFIX-Pipe Couplers for pipe OD 22x1.5 mm

Gas connections MG 100

inlets outlet at mixer

G 1 RH with cone, soldering nipple for pipe OD 22 mm G 1 RH with cone, soldering nipple for pipe OD 22 mm WITTFIX-Pipe Couplers for pipe OD 22x1.5 mm outlet at receiver

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

Weight MG 50 approx. 35 kg (-2ME), approx. 50 kg (-3ME) without receiver Weight MG 100 approx. 38 kg (-2ME), approx. 53 kg (-3ME) without receiver

Dimensions (HxWxD)

approx. 330 x 485 x 500 mm (12.99 x 19.09 x 19.68 inches) mixer

(without connections and receiver)

separate control cabinet (Ex) approx. 212 x 198 x 160 mm (8.35 x 7.79 x 6.30 inches)

(without connections)

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

CE-marked according to:

- EMC 2014/30/EU
- Low Voltage Directive 2014/35/EU
- PED 2014/68/EU
- ATEX 114 Directive 2014/34/EU

Cleaned for Oxygen Service according to:

- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

F	Flow MG 50 (in Nm³/h) in relation to air												
		min	ı. recei	ver pre	ssure i	n barg	(max. ı	receive	r press	ure 0.5	bar hi	gher)	
			1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5	
			21	-	-	-	-	-	-	-	-	-	
			27	24	-	-	-	-	-	-	-	-	
	min. inlet		32	32	28	-	-	-	-	-	-	-	
	pressure		37	37	36	31	-	-	-	-	-	-	
	in barg		43	43	43	40	33	-	-	-	-	-	
- 100	(max.		48	48	48	47	43	36	-	-	-	-	
	20 bar)	10	54	54	54	53	51	46	38	-	-	-	
		11	59	59	59	59	58	55	49	40	-	-	
		12	65	65	65	65	64	62	59	52	42	-	
ш		13	70	70	70	70	70	69	67	62	55	44	

Flow MG 1	,		,				iver pre	ssure 0	.5 bar h	igher)
		1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
	4	37	-	-	-	-	-	-	-	-
	5	53	45	-	-	-	-	-	-	-
min, inlet	6	67	62	49	-	-	-	-	-	-
pressure	7	80	77	69	53	-	-	-	-	-
in barg	8	93	91	86	75	60	-	-	-	-
(max.	9	106	105	100	93	82	63	-	-	-
20 bar)	10	119	118	115	109	101	87	68	-	-
	11	133	132	130	126	119	108	93	72	-
	12	147	146	144	142	137	128	116	98	75
	13	161	160	158	156	152	147	137	123	104