

MG 50/100-2ME /-3ME



MG 50-2ME GB

MG 50/100-2ME /-3ME EEx



MG 50-3ME EEx

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

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

Options

- for flammable gases available as EEx-version with separate control cabinet
- without electrical equipment as MP-version
- monitoring of the gas supply by means of pressure switches; too low an inlet pressure triggers an optical alarm (audible optional) and switches a potential free contact (e.g. to shutdown machinery to avoid quality problems)
- 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

Other models, options and accessories available on request.

Please identify the individual gases at the time of enquiring!

GAS MIXERS

www.wittgas.com

Type	MG 50/100-2ME /-3ME; MG 50/100-2ME /-3ME EEx
Gases	all technical gases (excluding toxic or corrosive gases)
Mixing range	0-25% or 0-100%
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	G 1/2 RH with cone, soldering nipple for pipe OD 15 mm
outlet at mixer	G 1/2 RH with cone, soldering nipple for pipe OD 15 mm
outlet at receiver	WITTFIX-Pipe Couplers for pipe OD 22x1.5 mm
Gas connections MG 100	
inlets	G 1 RH with cone, soldering nipple for pipe OD 22 mm
outlet at mixer	G 1 RH with cone, soldering nipple for pipe OD 22 mm
outlet at receiver	WITTFIX-Pipe Couplers for pipe OD 22x1.5 mm
Housing	stainless steel, splash proof (not EEx-version)
Weight MG 50	approx. 35 kg (-2ME), approx. 50 kg (-3ME) without receiver
Weight MG 100	approx. 50 kg (-2ME), approx. 65 kg (-3ME) without receiver
Dimensions (HxWxD)	
mixer	approx. 330 x 485 x 500 mm (12.99 x 19.09 x 19.68 inch) (without connections and receiver)
separate control cabinet (EEx)	approx. 212 x 198 x 160 mm (8.35 x 7.79 x 6.30 inch) (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 9001:2000 and ISO 14001 CE-marked according to: - EMC 2004/108/EC - Low Voltage Directive 2006/95/EC - PED 97/23/EC - ATEX 95 Directive 94/9/EC

Technical Data

Flow MG 50 (in Nm ³ /h) in relation to air		min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)									
		1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
min. inlet pressure in barg (max. 20 bar)	4	21	-	-	-	-	-	-	-	-	-
	5	27	24	-	-	-	-	-	-	-	-
	6	32	32	28	-	-	-	-	-	-	-
	7	37	37	36	31	-	-	-	-	-	-
	8	43	43	43	40	33	-	-	-	-	-
	9	48	48	48	47	43	36	-	-	-	-
	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	-
	13	70	70	70	70	70	69	67	62	55	44

Flow MG 100 (in Nm ³ /h) in relation to air		min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)									
		1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	
min. inlet pressure in barg (max. 20 bar)	4	37	-	-	-	-	-	-	-	-	
	5	53	45	-	-	-	-	-	-	-	
	6	67	62	49	-	-	-	-	-	-	
	7	80	77	69	53	-	-	-	-	-	
	8	93	91	86	75	60	-	-	-	-	
	9	106	105	100	93	82	63	-	-	-	
	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	

B01/B1 subject to change