

GAS MIXERS

www.wittgas.com

MG 25/35/45/95-2 FIX



MG 25/35/45/95-2 FLEX



Gas mixing systems for 2 defined gases, designed for a variety of industrial applications.

FIX: pre-set, for gas mixings of carbon dioxide (CO₂) and nitrogen (N₂) used for pressurisation of beverage dispense systems, such as beer kegs.

FLEX: adjustable for welding applications.

With the new mixing technology patented by WITT no receiver is required.

MG 25-2 capacity range up to approx. 21 Nm³/h.
 MG 35-2 capacity range up to approx. 33 Nm³/h.
 MG 45-2 capacity range up to approx. 48 Nm³/h.
 MG 95-2 capacity range up to approx. 96 Nm³/h.
 For the exact pressure and flow capacity ratios, please see the technical data overleaf.

Benefits

- high mixing accuracy
- avoids need for multiple pre-mix stocks (saving costs)
- without costly receiver
- inlet gas filters protect the device against impurities
- pneumatic operating principle, no electrical connections required
- mixed gas production from 2 l/min to the max. flow
- robust, compact design
- panel for wall mounting
- maintenance free

Easy operation

- blends are factory set and tamper proof (FIX)
- a mixing valve with a control knob and %-scale provides infinitely variable mixture settings (FLEX)

High process reliability

- independent of pressure fluctuations in the gas supply
- independent of withdrawal fluctuations (in permitted range)
- fail safe design (unit shuts down on failure of either gas supply)

Options

- 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 shut down machinery to avoid quality problems)

Other models, options and accessories available on request.

Please identify the individual gases at the time of enquiring!

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Type	MG 25/35/45/95-2 FIX; MG 25/35/45/95-2 FLEX
Gases	all technical gases (excluding toxic or corrosive gases) Non-apply of fuel gases with O ₂ !
Mixing range	FIX: 2-85% according to the pre-set gas blend FLEX: 2-20%, 20-60%
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 ±2% abs.
Temperature (gas/environment)	-25 °C to +50 °C (-13 °F to +122 °F)
Gas connections	G 3/8 RH with cone, hose nipple 8 mm
For fuel gases: fuel gas connection and outlet at mixer	G 3/8 LH with cone, soldering nipple for pipe OD 10 mm
Housing	stainless steel, splash proof
Weight	approx. 30 kg
Dimensions (HxWxD)	approx. 355 x 565 x 250 mm (13.9 x 22.2 x 9.8 inch) (without connections)
Approvals	Company certified according to ISO 9001:2000 and ISO 14001

Flow **MG 25-2** (in Nm³/h) in relation to air

		outlet pressure in barg						
		0.5	1.5	2.5	3.5	4.5	5.5	6.5
min. inlet pressure in barg (max. 20 bar)	4	2	-	-	-	-	-	-
	5	4	3	-	-	-	-	-
	6	7	6	4	-	-	-	-
	7	10	9	8	5	-	-	-
	8	14	12	11	9	6	-	-
	9	17	16	15	13	10	7	-
	10	21	20	19	17	14	11	7

Flow **MG 35-2** (in Nm³/h) in relation to air

		outlet pressure in barg						
		0.5	1.5	2.5	3.5	4.5	5.5	6.5
min. inlet pressure in barg (max. 20 bar)	4	4	-	-	-	-	-	-
	5	8	6	-	-	-	-	-
	6	13	11	8	-	-	-	-
	7	17	16	13	9	-	-	-
	8	22	21	18	15	11	-	-
	9	28	26	24	21	17	12	-
	10	33	32	30	26	23	19	13

Flow **MG 45-2** (in Nm³/h) in relation to air

		outlet pressure in barg						
		0.5	1.5	2.5	3.5	4.5	5.5	6.5
min. inlet pressure in barg (max. 20 bar)	4	8	-	-	-	-	-	-
	5	14	11	-	-	-	-	-
	6	21	18	14	-	-	-	-
	7	27	25	21	16	-	-	-
	8	35	32	29	24	18	-	-
	9	42	40	36	32	26	20	-
	10	48	47	45	40	35	28	21

Flow **MG 95-2** (in Nm³/h) in relation to air

		outlet pressure in barg						
		0.5	1.5	2.5	3.5	4.5	5.5	6.5
min. inlet pressure in barg (max. 20 bar)	4	16	-	-	-	-	-	-
	5	28	22	-	-	-	-	-
	6	42	36	28	-	-	-	-
	7	54	50	42	32	-	-	-
	8	70	64	58	48	36	-	-
	9	84	80	72	64	52	40	-
	10	96	94	90	80	70	56	42

Technical Data

A8 subject to change