

# GAS MIXER



Application:  
- Food Industry

KM 100/200-M

Made in Germany

Product of





**-2M**



**-3M**

**Gas mixing systems for 2 or 3 defined gases especially for flow packing machines or other continuous packaging processes in the food industry.**

Capacity range from 0 to approx. 544 NI/min.  
For the exact pressure and flow capacity ratios,  
please see the technical data overleaf.

#### **Easy operation**

- a proportional mixing valve (2-) or three single mixing valves (3-), each with a control knob and %-scale, provide infinitely variable mixture settings
- the flow of the gas mixture is controlled by a metering valve combined with a flow meter

#### **Constant quality**

- independent of pressure fluctuations in the gas supply
- independent of packing speed (in permitted range)

#### **High process reliability**

- alarm module NXT+: 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.
- lockable transparent door for protection of settings

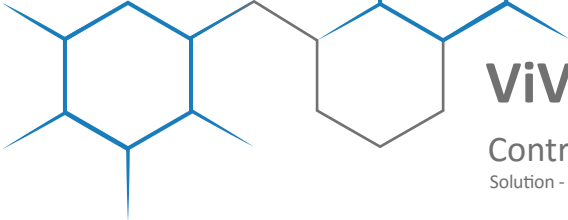
#### **Maximum hygiene**

- splash-proof and robust stainless steel housing
- smooth and easy to clean surface

**Other models, options and accessories available upon request.**  
**Please identify the individual gases at the time of enquiring!**

<b>Type</b>	KM 100/200-2M; KM 100/200-3M
<b>Gases</b>	N <sub>2</sub> , CO <sub>2</sub> , O <sub>2</sub> not for flammable gases!
<b>Mixing range</b>	0 – 100%
<b>Pressure settings</b>	see tables
<b>Inlet pressure differential between the gases</b>	max. 3 bar
<b>Mixture output (air)</b>	see tables min. mixture output = 1/5 of the max. mixture output
<b>Setting accuracy</b>	± 2% abs. (scale 0 – 100%)
<b>Mixing precision</b>	better than ±1% abs.
<b>Gas connections</b> <b>inlets</b> <b>outlet</b>	G 3/8 RH with cone, hose nipple 8 mm G 3/8 RH with cone, hose nipple 8 mm
<b>Housing</b>	stainless steel, splash proof
<b>Weight</b>	approx. 17 kg (-2), approx. 25 kg (-3)
<b>Dimensions (HxWxD) (without connections)</b>	approx. 222 x 325 x 345 mm (8.74 x 12.80 x 13.58 inches)
<b>Voltage</b>	230 V AC, 110 V AC or 24 V DC
<b>Power consumption</b>	230 V AC, 0.02 A 110 V AC, 0.04 A 24 V DC, 0.06 A
<b>Approvals</b>	Company certified according to ISO 9001 and ISO 22000 CE-marked according to: - EMC 108/2004/EC - Low Voltage Directive 95/2006/EC for food-grade gases according to: - Regulation (EC) No 2004/1935





Flow KM 100 (in NI/min) in relation to CO <sub>2</sub>									
		outlet pressure in barg							
		0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
min. inlet pressure in barg (max. 13 bar)	2	60	-	Note: Reduced mixture output in case of higher outlet pressures					
	3	-	80						
	4	-	-	100	-	-	-	-	-
	5	-	-	-	110	-	-	-	-
	6	-	-	-	-	120	-	-	-
	7	-	-	-	-	-	130	-	-
	8	-	-	-	-	-	-	140	-
	9	-	-	-	-	-	-	-	150

Flow KM 200 (in NI/min) in relation to CO <sub>2</sub>									
		outlet pressure in barg							
		0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
min. inlet pressure in barg (max. 13 bar)	2	116	-	Note: Reduced mixture output in case of higher outlet pressures					
	3	-	139						
	4	-	-	168	-	-	-	-	-
	5	-	-	-	197	-	-	-	-
	6	-	-	-	-	216	-	-	-
	7	-	-	-	-	-	249	-	-
	8	-	-	-	-	-	-	288	-
	9	-	-	-	-	-	-	-	323





### Gas control equipment

- Gas mixing systems
- Gas metering systems
- Gas analysers
- Leak detection systems
- Gas pressure vessels
- Engineering of customised systems

### Gas safety equipment

- Flashback arrestors
- Non-return valves
- Quick COUPLINGS
- Safety valves
- Stainless steel devices
- Gas filters
- Pressure regulators
- Lance holders
- Ball valves
- Automatic hose reels
- Test equipment
- Accessories
- Customised safety devices

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