

# GAS MIXER

Application:  
- Welding & Cutting



KM 20/30/60/100

Made in Germany

Product of





**KM 20-2**



**KM 20-3**

**Gas mixing systems for 2 or 3 defined gases, designed for a variety of industrial applications for example, welding applications.**

Capacity range up to approx. 350 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
- infinitely variable flow setting with scaled control knob

#### **High process reliability**

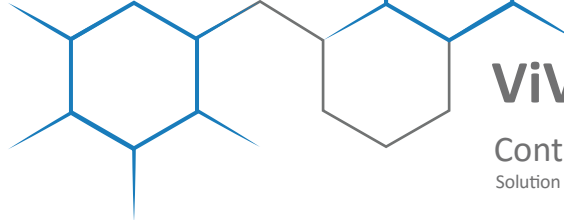
- independent of pressure fluctuations in the gas supply
- independent of withdrawal fluctuations (in permitted range)

#### **Options**

- robust stainless steel housing

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

**GAS MIXER**  
**KM 20/30/60/100**



**VIVANGAS**

Control and Safety  
Solution - Engineering- Equipment



Type	KM 20/30/60/100-2; KM 20/30/60/100-3
Gases	all technical gases (excluding toxic and corrosive gases) also mixtures of fuel gas with air, O <sub>2</sub> or N <sub>2</sub> O)
Mixing range	0-25% (KM 60/100 only) 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 min. mixture output = 5/1 of the max. mixture output <b>Note!</b> <b>Flow &lt; 8 NI/min not possible!</b>
Setting accuracy	±1 % abs. (scale 0-25%), ±2% abs. (scale 2-100%)
Mixing precision	better than ±1% abs.
Gas connections KM 20/30/60	G 1/4 RH with cone, hose nipple 6 mm
Gas connections KM 100	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	steel, powder coated
Weight	approx. 12 kg (-2), approx. 21 kg (-3)
Dimensions (HxWxD)	approx. 250 x 150 x 340 mm (9.84 x 5.90 x 13.39 inches) (-2 without connections) approx. 250 x 350 x 340 mm (9.84 x 13.78 x 13.39 inches) (-3 without connections)
Approvals	Company certified according to ISO 9001 CE-marked according to: - ATEX 95 Directive 94/9/EC



Flow KM 20 (in NI/min) in relation to air

		outlet pressure in barg											
		0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
min. inlet pressure in barg (max. 13 bar)	2	8	-	-	-	-	-	-	-	-	-	-	-
	3	-	10	-	-	-	-	-	-	-	-	-	-
	4	-	-	13	-	-	-	-	-	-	-	-	-
	5	-	-	-	17	-	-	-	-	-	-	-	-
	6	-	-	-	-	20	-	-	-	-	-	-	-
	7	-	-	-	-	-	24	-	-	-	-	-	-
	8	-	-	-	-	-	-	27	-	-	-	-	-
	9	-	-	-	-	-	-	-	30	-	-	-	-
	10	-	-	-	-	-	-	-	-	34	-	-	-
	11	-	-	-	-	-	-	-	-	-	37	-	-
	12	-	-	-	-	-	-	-	-	-	-	40	-
	13	-	-	-	-	-	-	-	-	-	-	-	44

Note:  
Reduced mixture output in case of higher outlet pressures.

Flow KM 30 (in NI/min) in relation to air

		outlet pressure in barg											
		0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
min. inlet pressure in barg (max. 13 bar)	2	13	-	-	-	-	-	-	-	-	-	-	-
	3	-	21	-	-	-	-	-	-	-	-	-	-
	4	-	-	29	-	-	-	-	-	-	-	-	-
	5	-	-	-	36	-	-	-	-	-	-	-	-
	6	-	-	-	-	44	-	-	-	-	-	-	-
	7	-	-	-	-	-	51	-	-	-	-	-	-
	8	-	-	-	-	-	-	59	-	-	-	-	-
	9	-	-	-	-	-	-	-	66	-	-	-	-
	10	-	-	-	-	-	-	-	-	73	-	-	-
	11	-	-	-	-	-	-	-	-	-	81	-	-
	12	-	-	-	-	-	-	-	-	-	-	88	-
	13	-	-	-	-	-	-	-	-	-	-	-	95

Note:  
Reduced mixture output in case of higher outlet pressures.

Flow KM 60 (in NI/min) in relation to air

		outlet pressure in barg											
		0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
min. inlet pressure in barg (max. 13 bar)	2	24	-	-	-	-	-	-	-	-	-	-	-
	3	-	39	-	-	-	-	-	-	-	-	-	-
	4	-	-	53	-	-	-	-	-	-	-	-	-
	5	-	-	-	68	-	-	-	-	-	-	-	-
	6	-	-	-	-	82	-	-	-	-	-	-	-
	7	-	-	-	-	-	96	-	-	-	-	-	-
	8	-	-	-	-	-	-	109	-	-	-	-	-
	9	-	-	-	-	-	-	-	123	-	-	-	-
	10	-	-	-	-	-	-	-	-	137	-	-	-
	11	-	-	-	-	-	-	-	-	-	151	-	-
	12	-	-	-	-	-	-	-	-	-	-	165	-
	13	-	-	-	-	-	-	-	-	-	-	-	179

Note:  
Reduced mixture output in case of higher outlet pressures.

Flow KM 100 (in NI/min) in relation to air

		outlet pressure in barg											
		0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
min. inlet pressure in barg (max. 13 bar)	2	47	-	-	-	-	-	-	-	-	-	-	-
	3	-	77	-	-	-	-	-	-	-	-	-	-
	4	-	-	105	-	-	-	-	-	-	-	-	-
	5	-	-	-	133	-	-	-	-	-	-	-	-
	6	-	-	-	-	160	-	-	-	-	-	-	-
	7	-	-	-	-	-	188	-	-	-	-	-	-
	8	-	-	-	-	-	-	215	-	-	-	-	-
	9	-	-	-	-	-	-	-	242	-	-	-	-
	10	-	-	-	-	-	-	-	-	269	-	-	-
	11	-	-	-	-	-	-	-	-	-	296	-	-
	12	-	-	-	-	-	-	-	-	-	-	323	-
	13	-	-	-	-	-	-	-	-	-	-	-	350

Note:  
Reduced mixture output in case of higher outlet pressures.





### 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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