



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)
- 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



<b>Type</b>	KM 20/30/60/100-2; KM 20/30/60/100-3
<b>Gases</b>	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)
<b>Mixing range</b>	0 – 25% (KM 60/100 only) or 0 – 100% by selection of suitable mixing range the accuracy corresponds to ISO 14175
<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>Note!</b> <b>Flow &lt; 8 NI/min not possible!</b>
<b>Setting accuracy</b>	±1% abs. (scale 0 – 25%), ±2% abs. (scale 0 – 100%)
<b>Mixing precision</b>	better than ±1% abs.
<b>Gas connections KM 20/30/60</b>	G 1/4 RH with cone, hose nipple 6 mm
<b>Gas connections KM 100</b>	G 3/8 RH with cone, hose nipple 8 mm
<b>For fuel gases: fuel gas connection and outlet at mixer</b>	G 3/8 LH with cone, soldering nipple for pipe OD 10 mm
<b>Housing</b>	stainless steel
<b>Weight</b>	approx. 12 kg (-2), approx. 21 kg (-3)
<b>Dimensions (HxWxD)</b>	approx. 250 x 165 x 340 mm (9.84 x 6.50 x 13.39 inches) (-2 without connections) approx. 250 x 370 x 340 mm (9.84 x 14.57 x 13.39 inches) (-3 without connections)
<b>Approvals</b>	Company certified according to ISO 9001 CE-marked according to: - ATEX 114 Directive 2014/34/EU

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	-	-	-	Note: Reduced mixture output in case of higher outlet pressures.							
	3	-	10	-	-								
	4	-	-	13	-								
	5	-	-	-	17	-	-	-	-	-	-	-	-
	6	-	-	-	-	20	-	-	-	-	-	-	-
	7	-	-	-	-	-	24	-	-	-	-	-	-
	8	-	-	-	-	-	-	27	-	-	-	-	-
	9	-	-	-	-	-	-	-	30	-	-	-	-
	10	-	-	-	-	-	-	-	-	34	-	-	-
	11	-	-	-	-	-	-	-	-	-	37	-	-
	12	-	-	-	-	-	-	-	-	-	-	40	-
	13	-	-	-	-	-	-	-	-	-	-	-	44

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	-	-	-	Note: Reduced mixture output in case of higher outlet pressures.							
	3	-	21	-	-								
	4	-	-	29	-								
	5	-	-	-	36	-	-	-	-	-	-	-	-
	6	-	-	-	-	44	-	-	-	-	-	-	-
	7	-	-	-	-	-	51	-	-	-	-	-	-
	8	-	-	-	-	-	-	59	-	-	-	-	-
	9	-	-	-	-	-	-	-	66	-	-	-	-
	10	-	-	-	-	-	-	-	-	73	-	-	-
	11	-	-	-	-	-	-	-	-	-	81	-	-
	12	-	-	-	-	-	-	-	-	-	-	88	-
	13	-	-	-	-	-	-	-	-	-	-	-	95

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	-	-	-	Note: Reduced mixture output in case of higher outlet pressures.							
	3	-	39	-	-								
	4	-	-	53	-								
	5	-	-	-	68	-	-	-	-	-	-	-	-
	6	-	-	-	-	82	-	-	-	-	-	-	-
	7	-	-	-	-	-	96	-	-	-	-	-	-
	8	-	-	-	-	-	-	109	-	-	-	-	-
	9	-	-	-	-	-	-	-	123	-	-	-	-
	10	-	-	-	-	-	-	-	-	137	-	-	-
	11	-	-	-	-	-	-	-	-	-	151	-	-
	12	-	-	-	-	-	-	-	-	-	-	165	-
	13	-	-	-	-	-	-	-	-	-	-	-	179

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	-	-	-	Note: Reduced mixture output in case of higher outlet pressures.							
	3	-	77	-	-								
	4	-	-	105	-								
	5	-	-	-	133	-	-	-	-	-	-	-	-
	6	-	-	-	-	160	-	-	-	-	-	-	-
	7	-	-	-	-	-	188	-	-	-	-	-	-
	8	-	-	-	-	-	-	215	-	-	-	-	-
	9	-	-	-	-	-	-	-	242	-	-	-	-
	10	-	-	-	-	-	-	-	-	269	-	-	-
	11	-	-	-	-	-	-	-	-	-	296	-	-
	12	-	-	-	-	-	-	-	-	-	-	323	-
	13	-	-	-	-	-	-	-	-	-	-	-	350